

FIG. 1

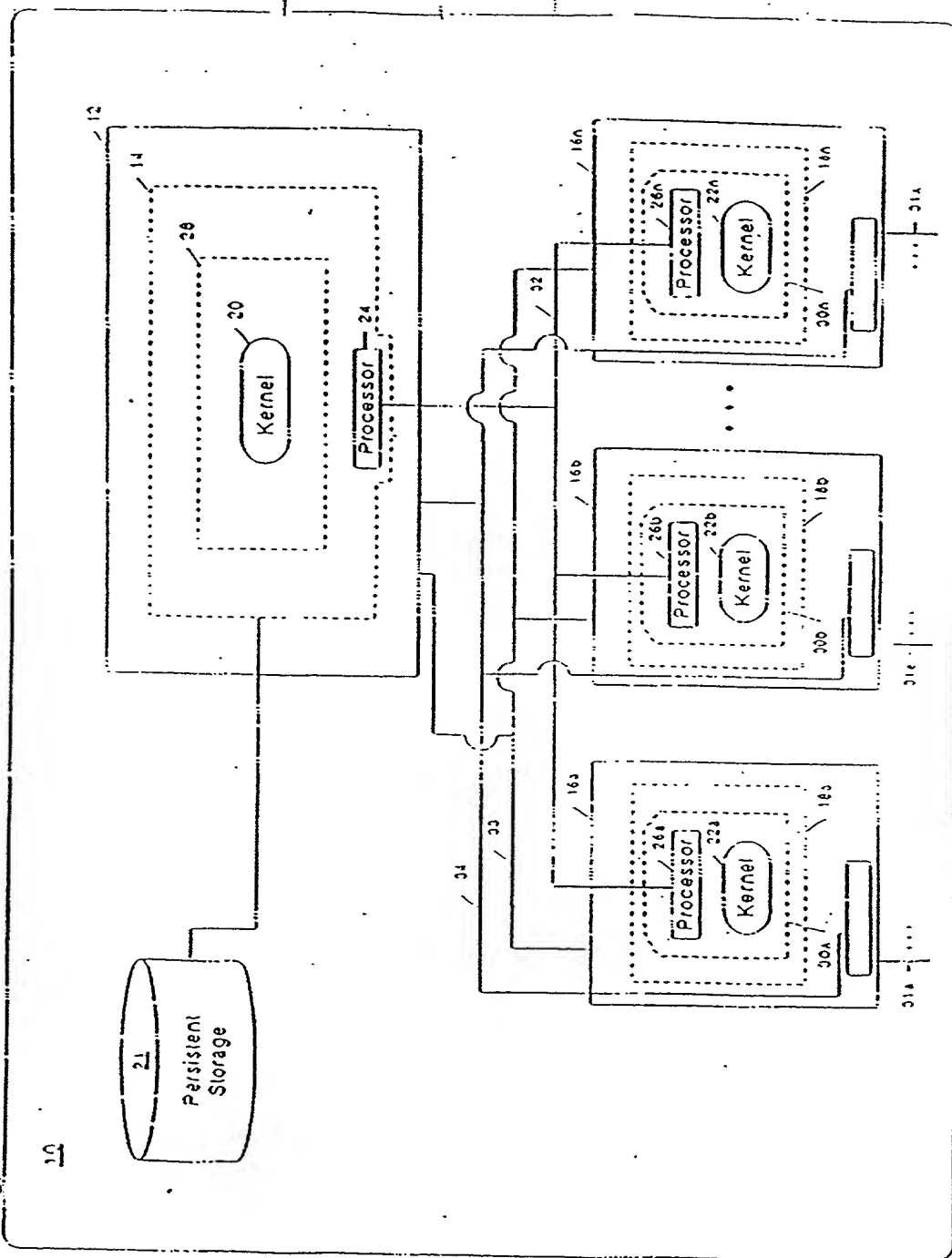


Fig. 2a

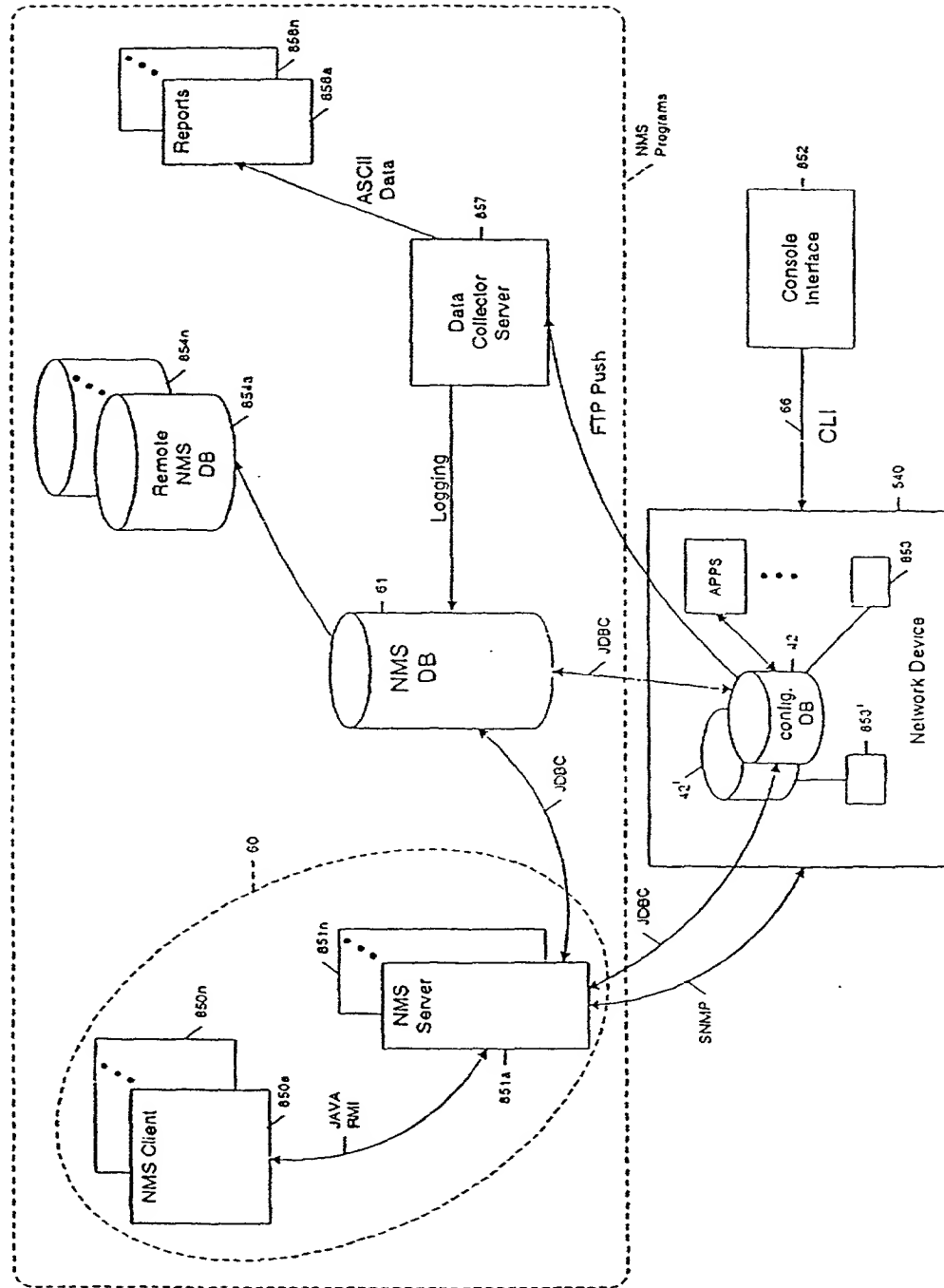
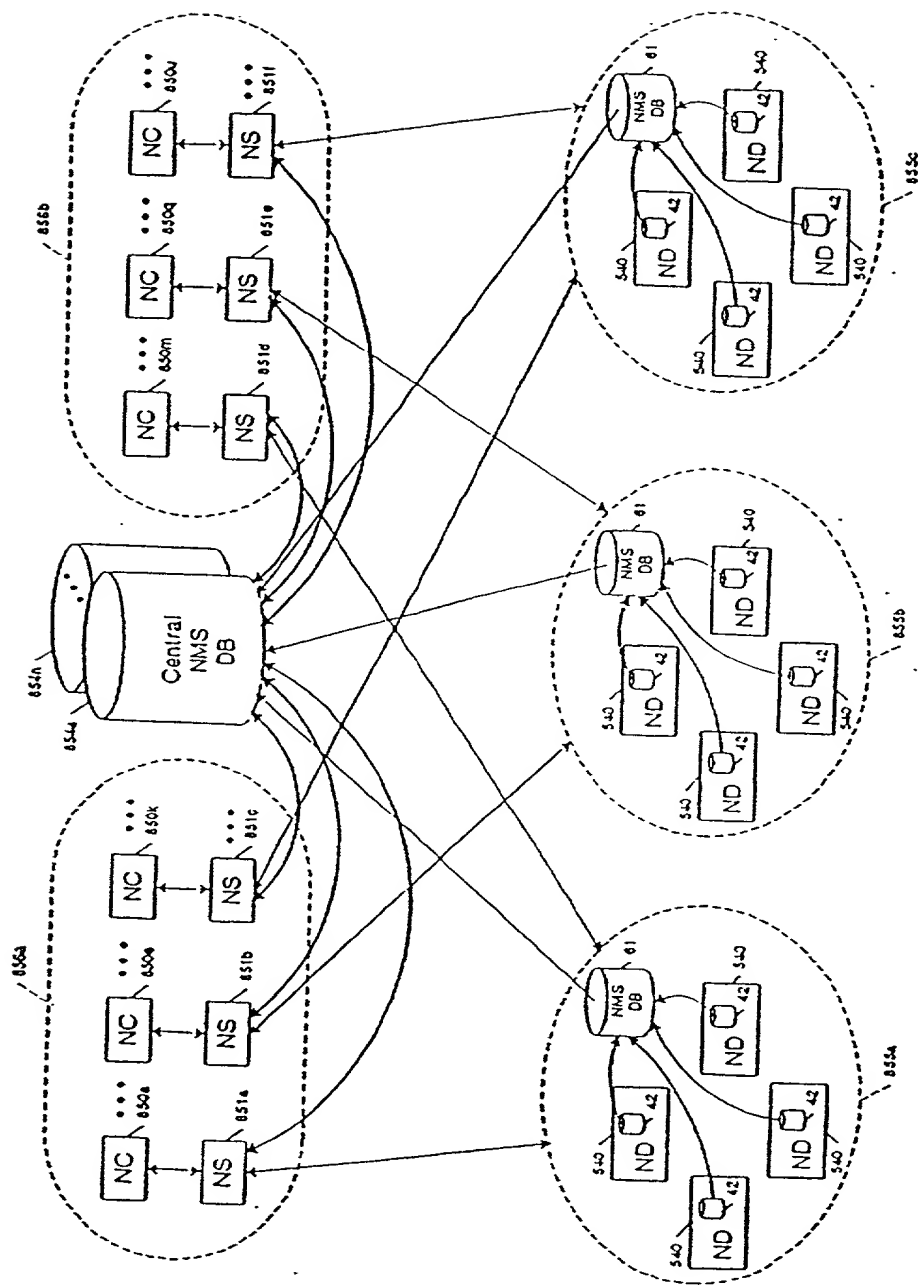


Fig. 2b



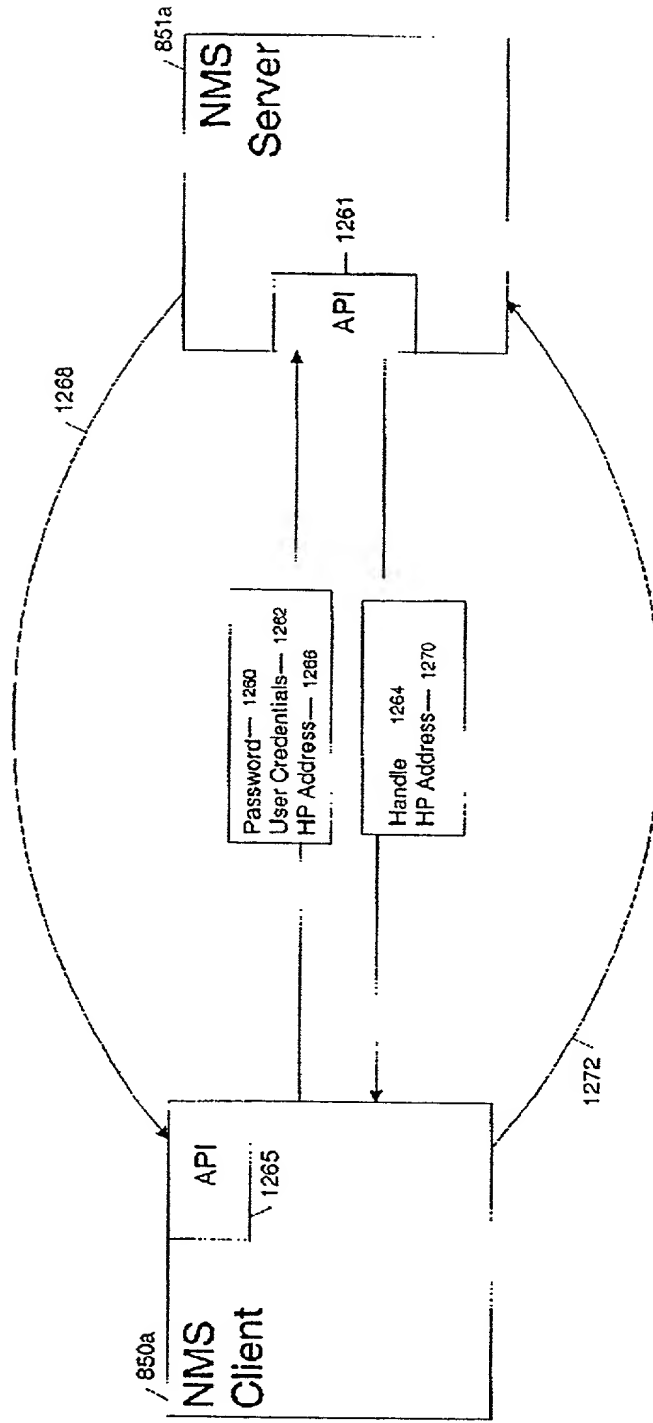


Fig. 2c

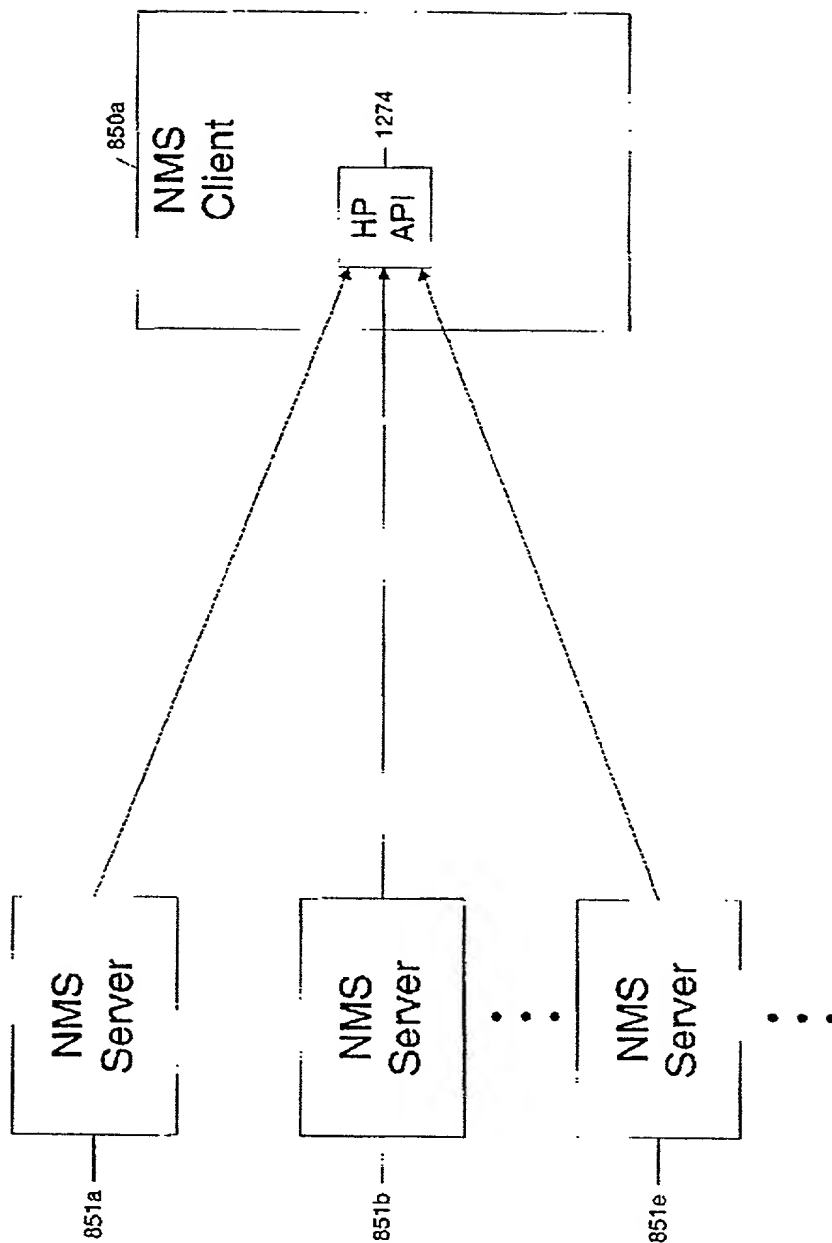


Fig. 2d

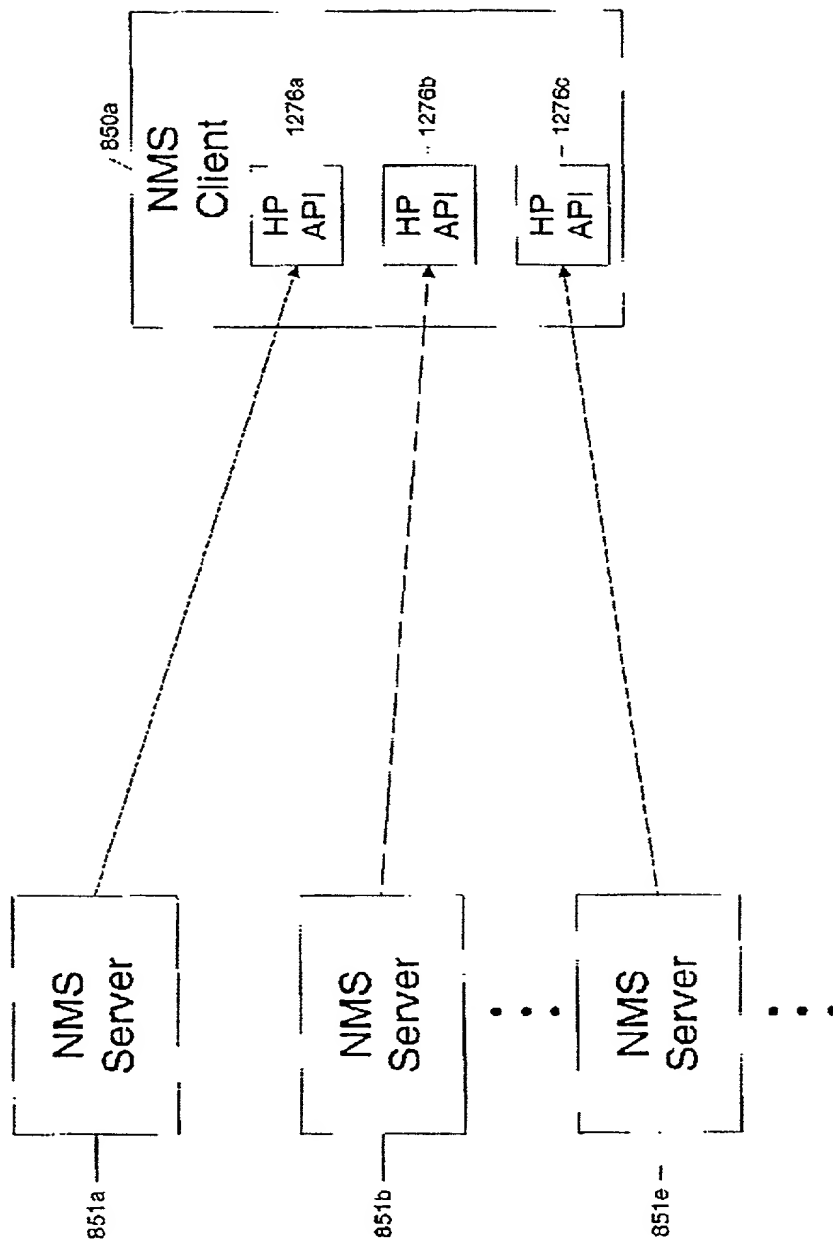


Fig. 2e

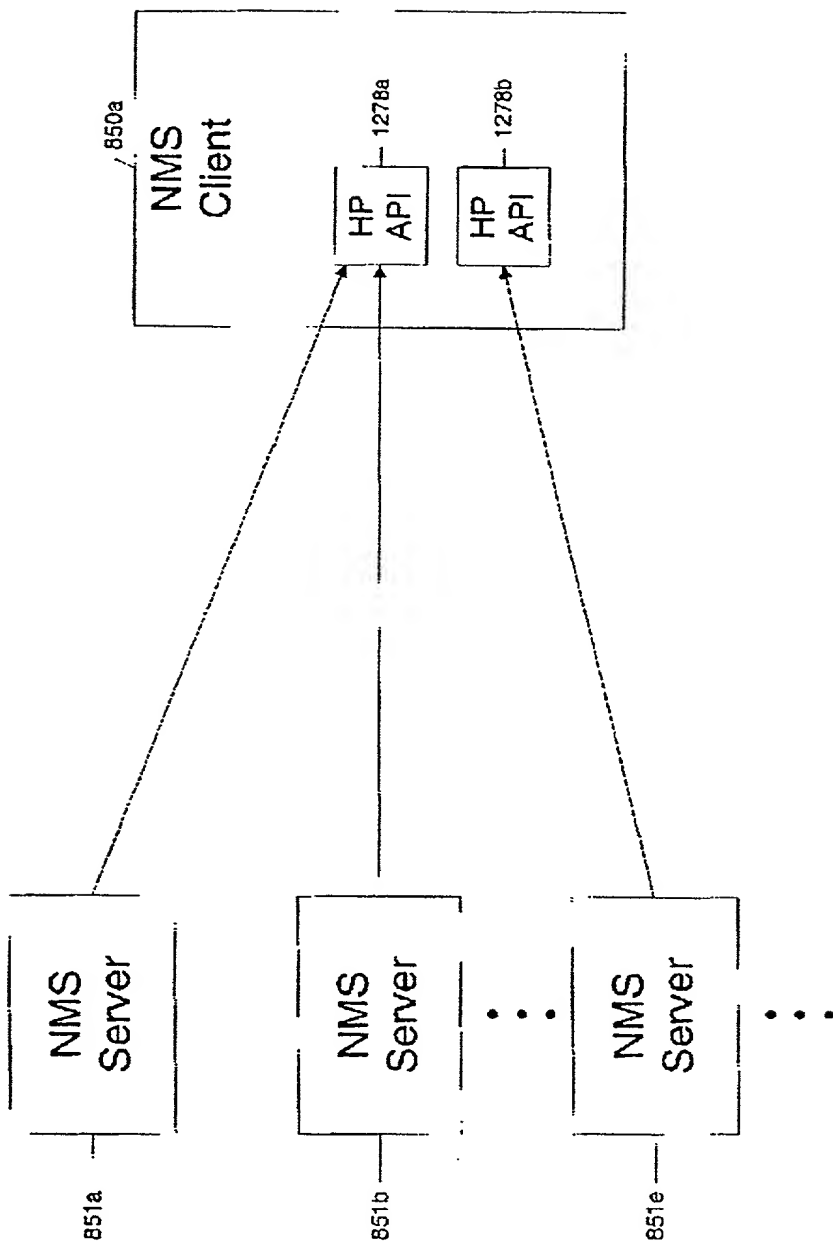


Fig. 2f

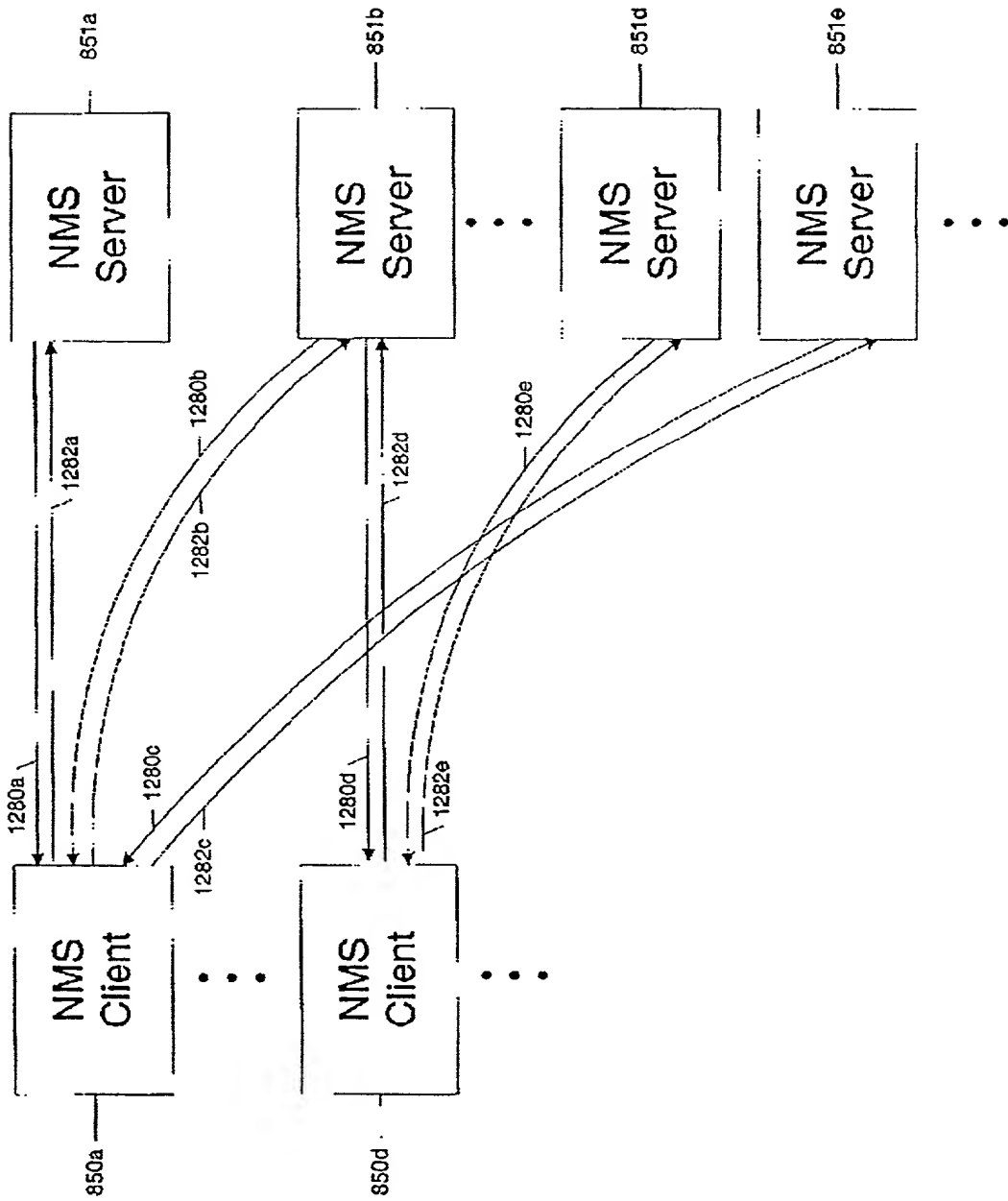


Fig. 2g

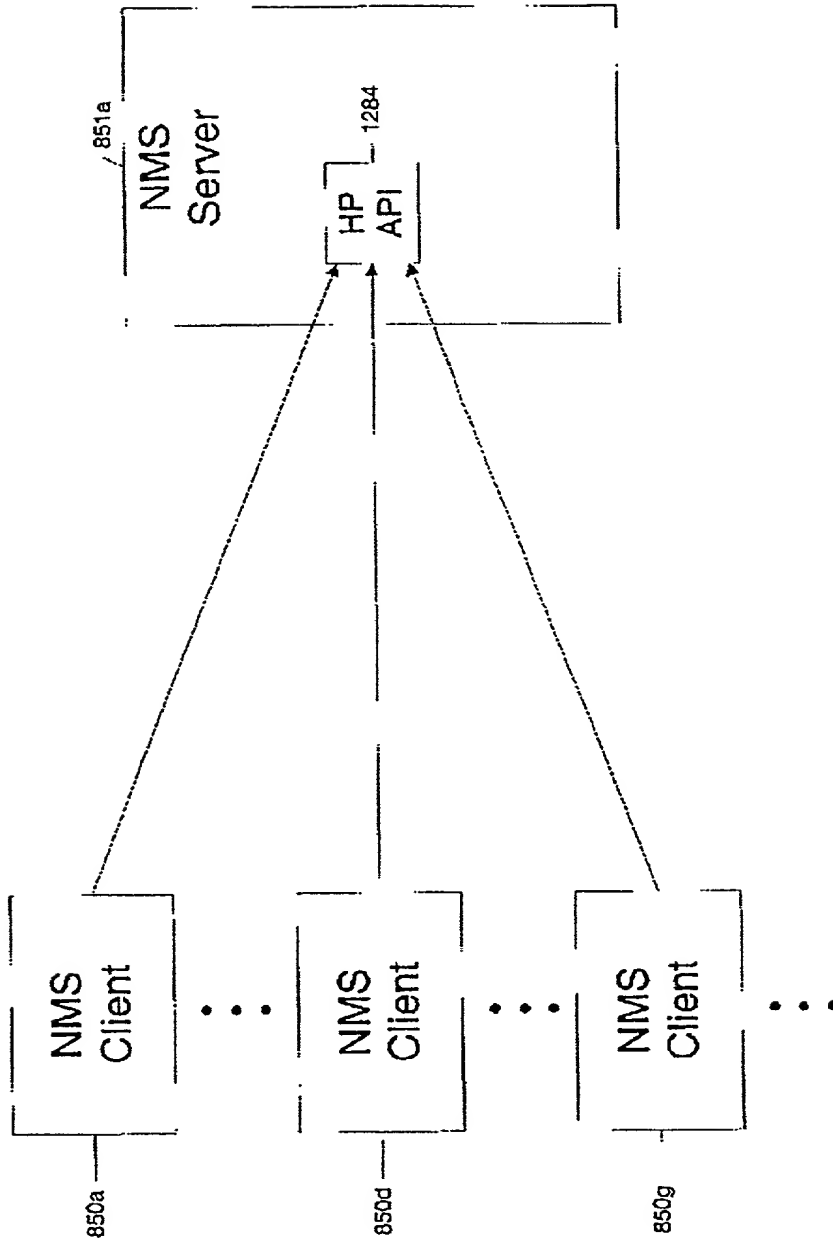


Fig. 2h

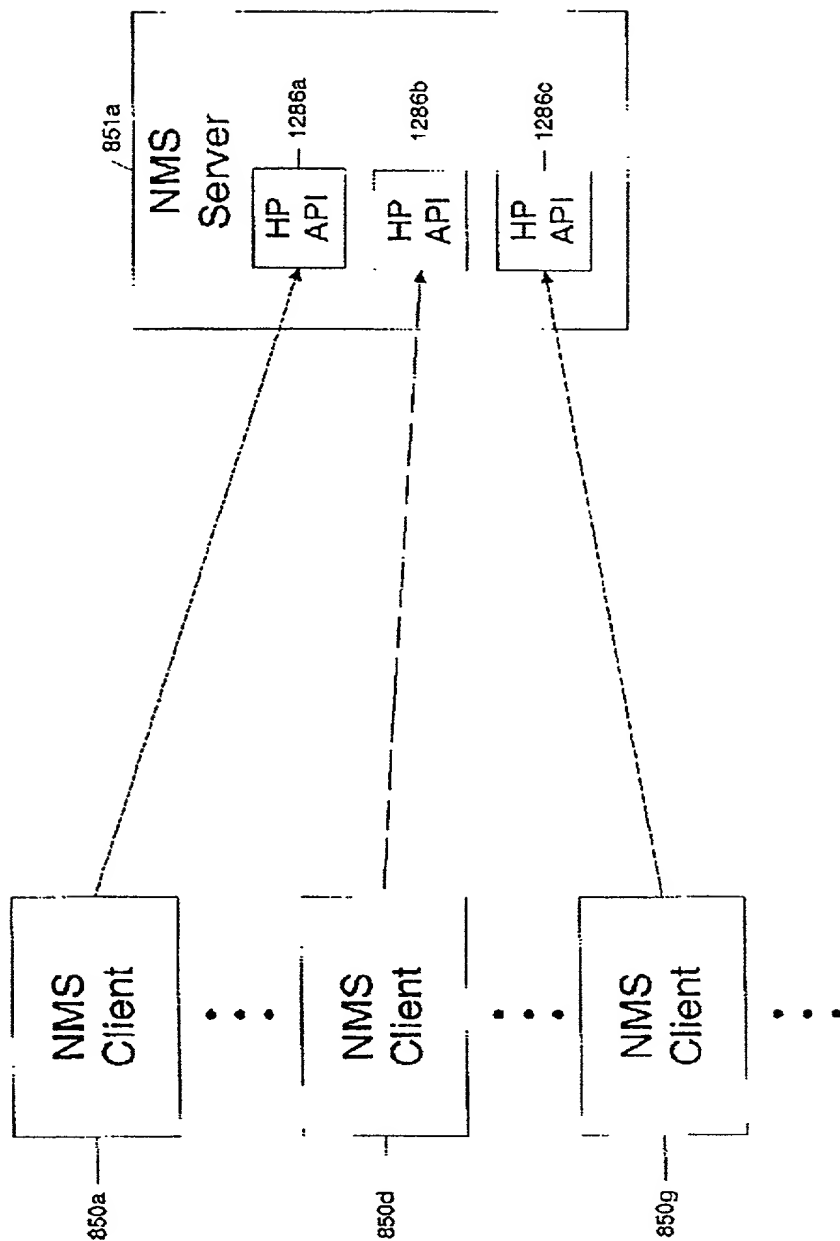


Fig. 2I

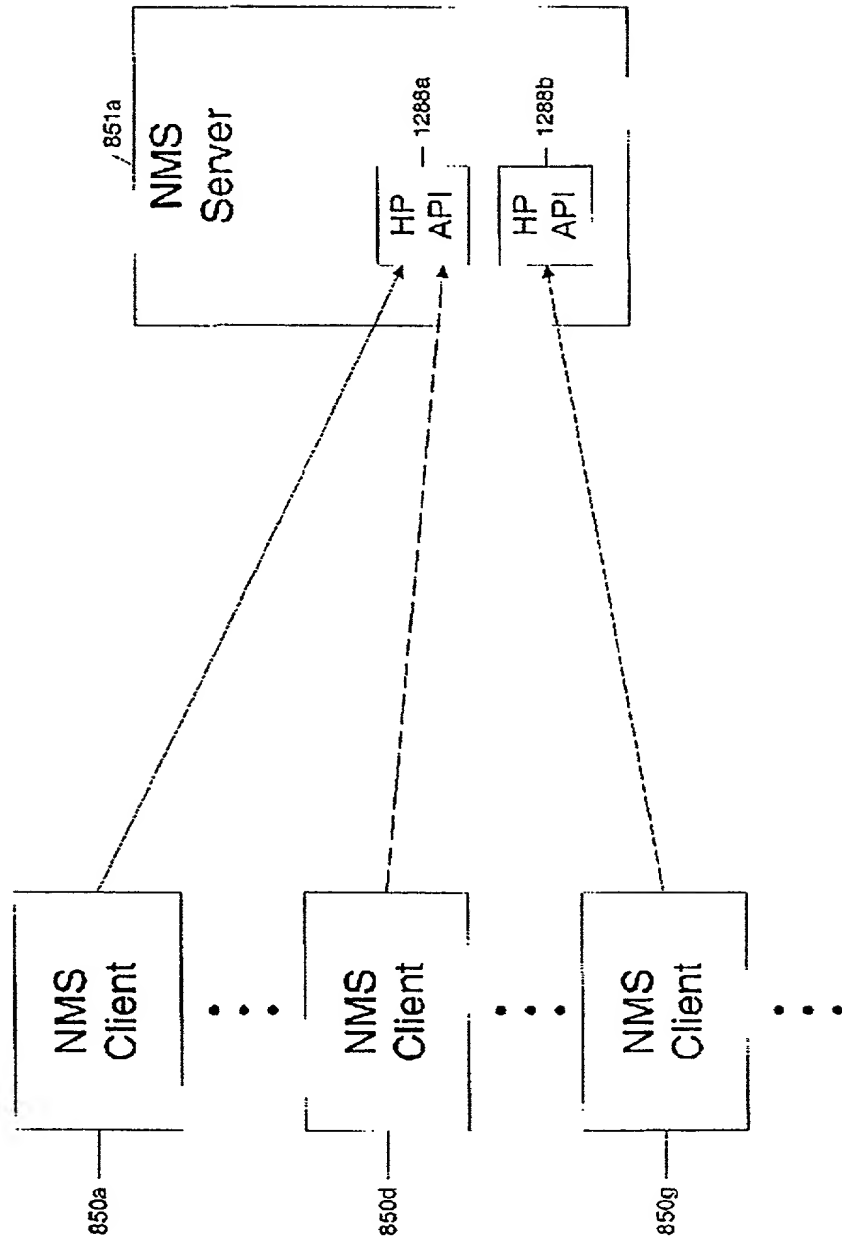


Fig. 2]

FIG. 3a

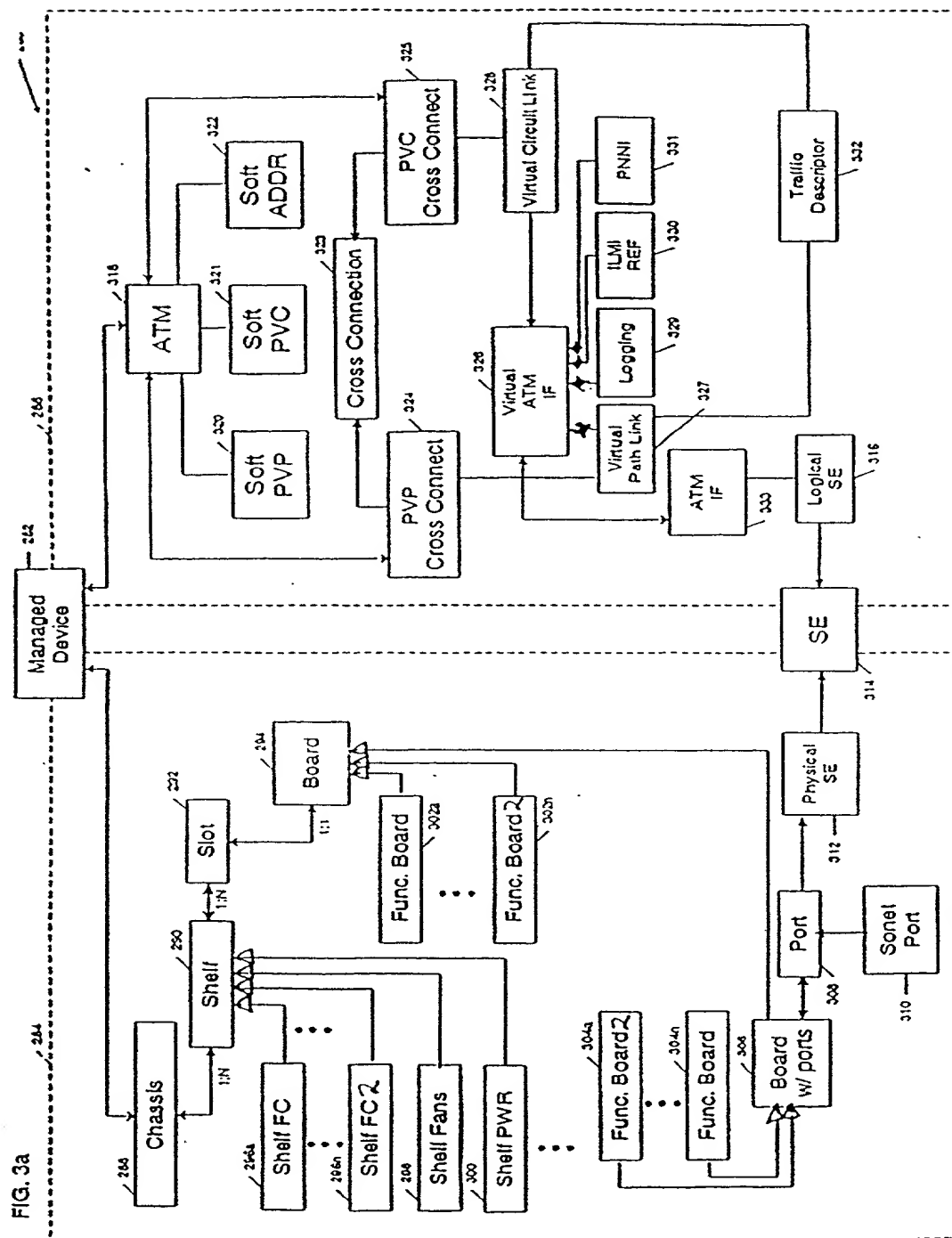


FIG. 3b

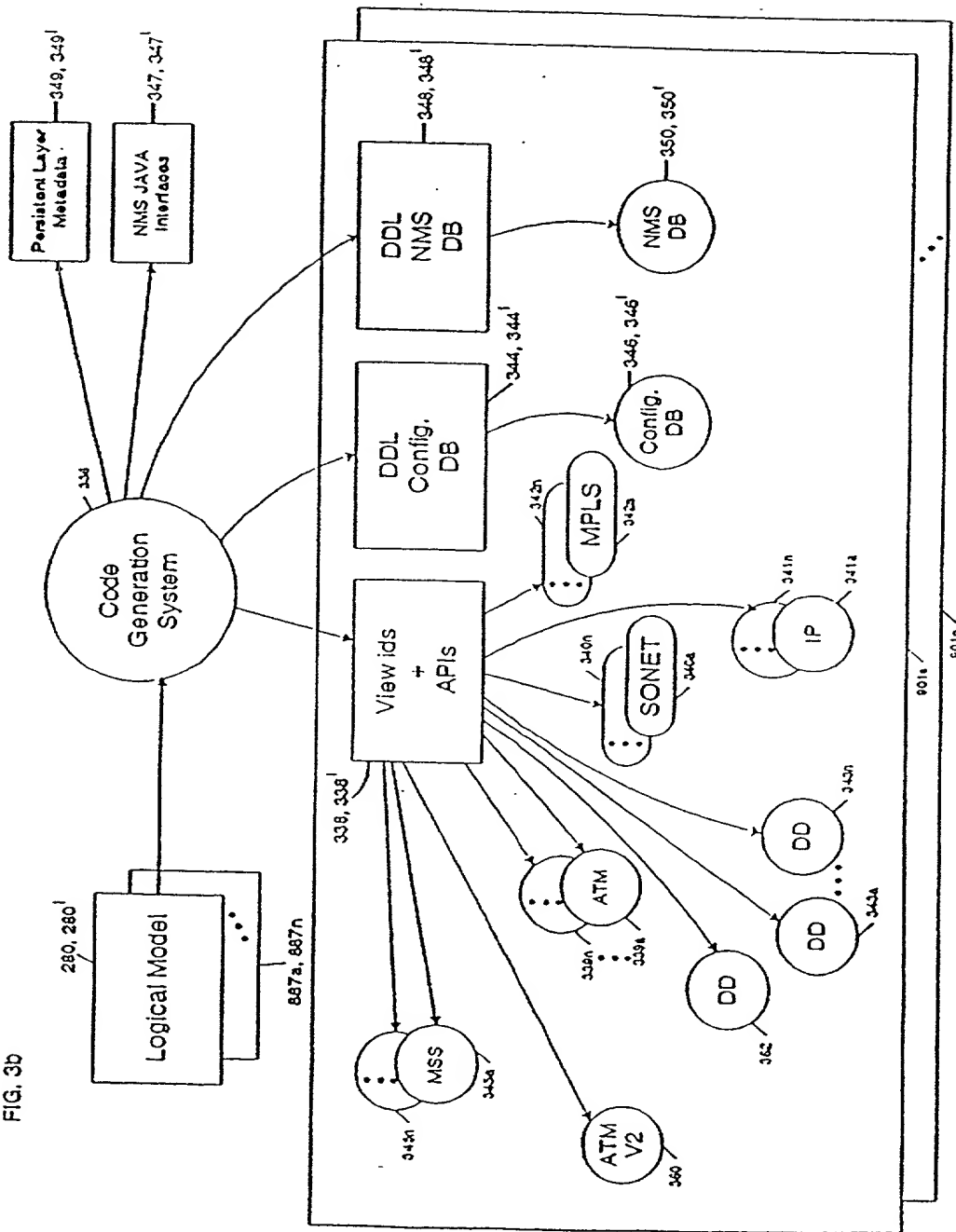


FIG. 3C

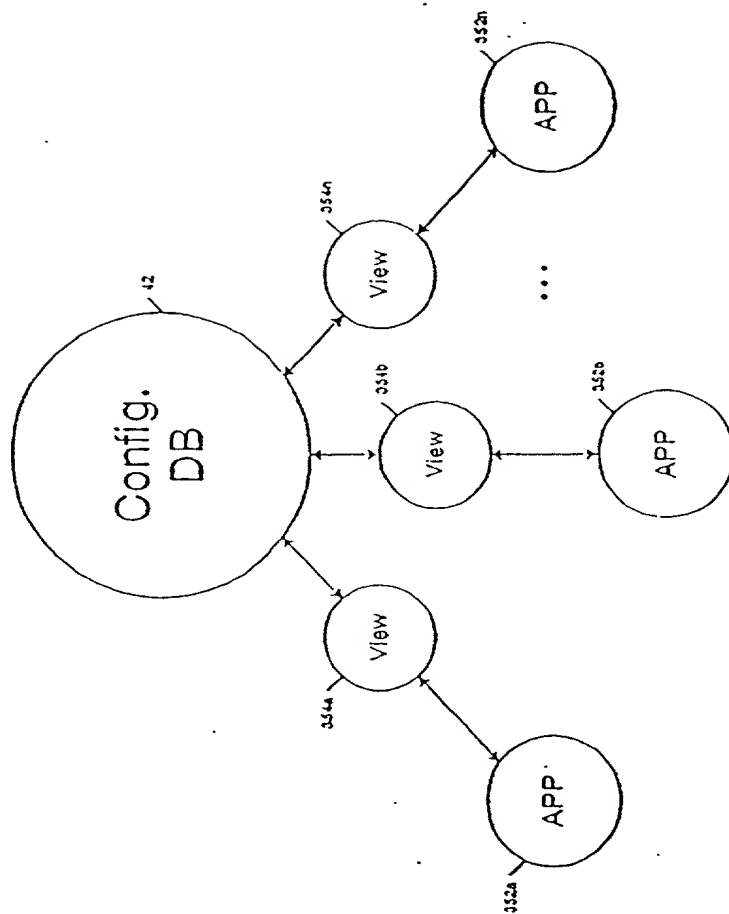
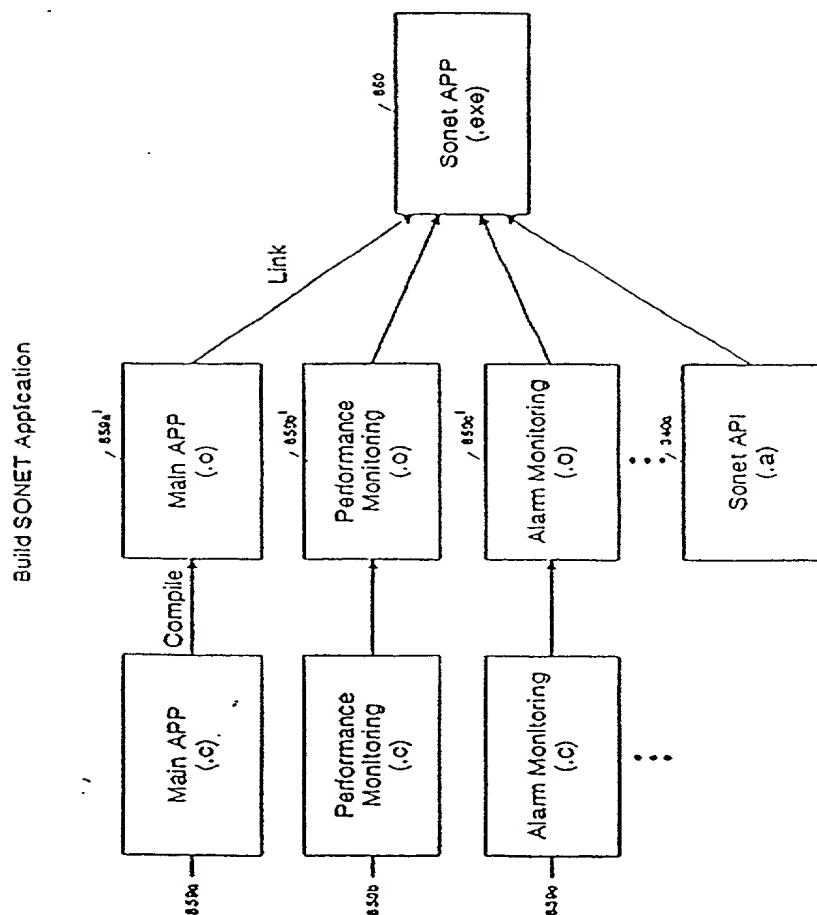


Fig. 3d.



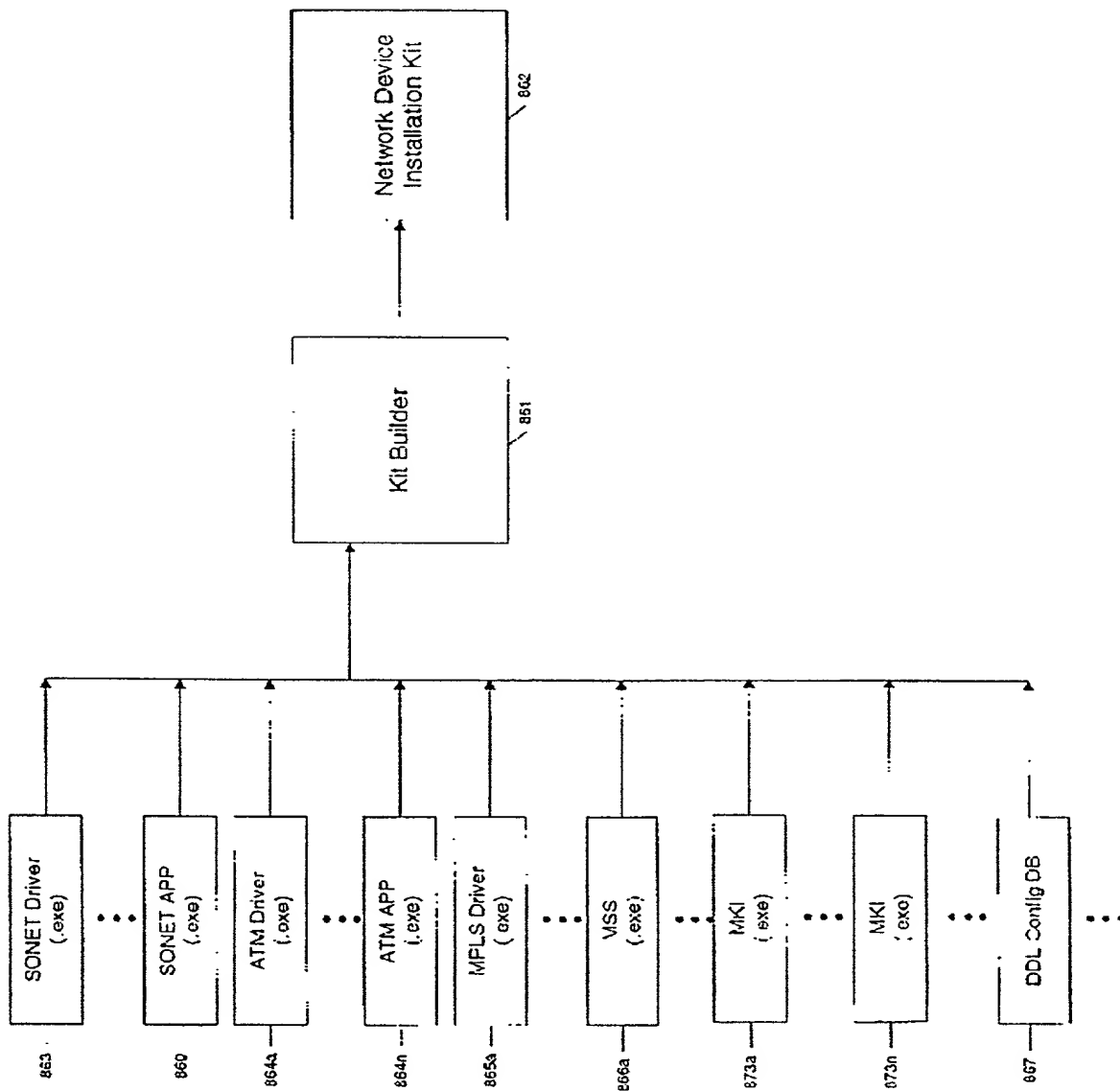


Fig. 3e

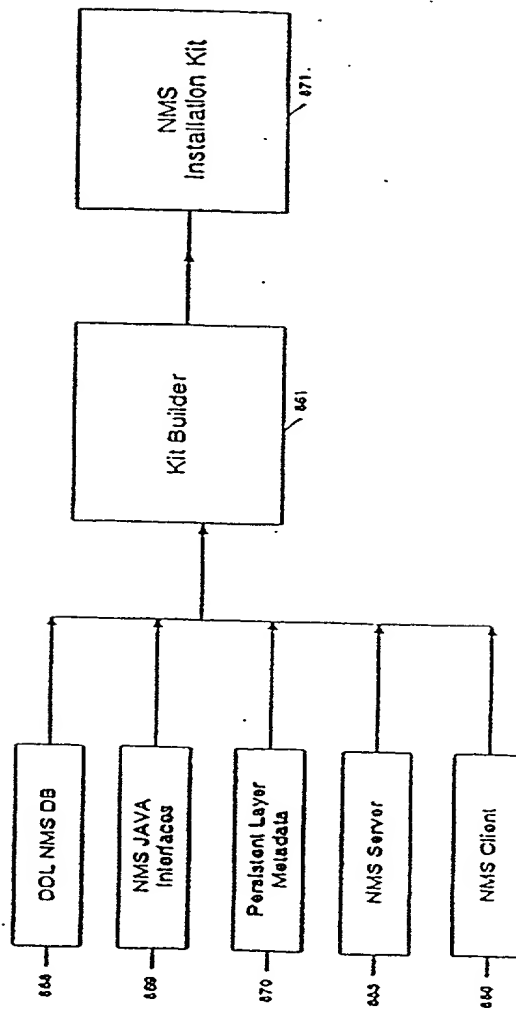


Fig. 3F

Fig. 3g

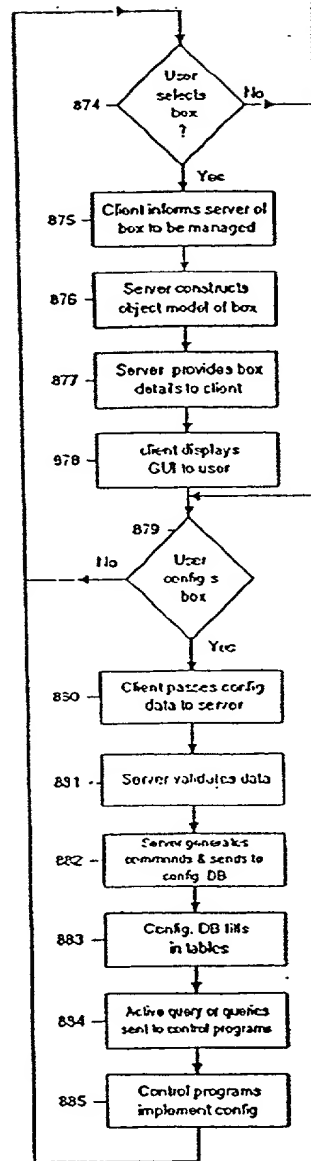
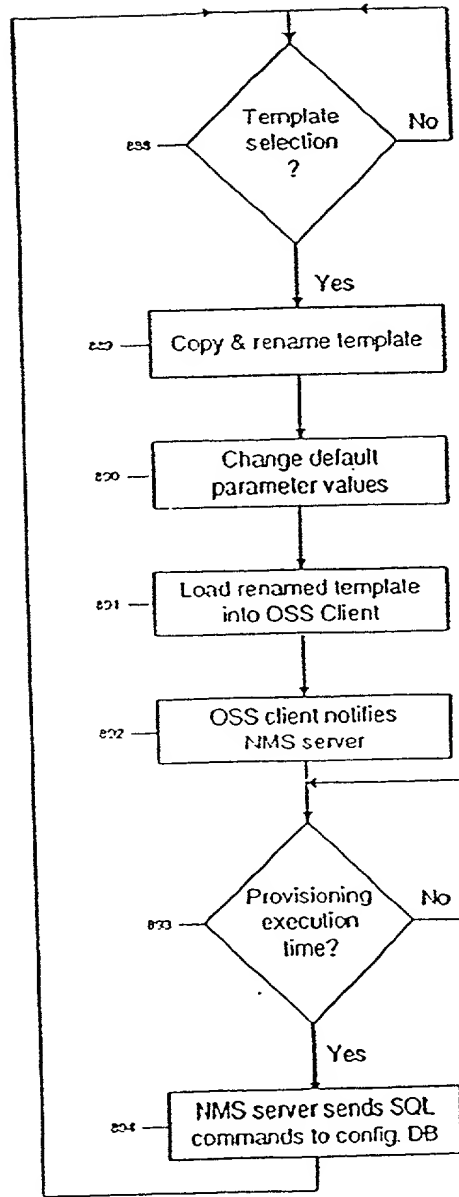


Fig. 3h



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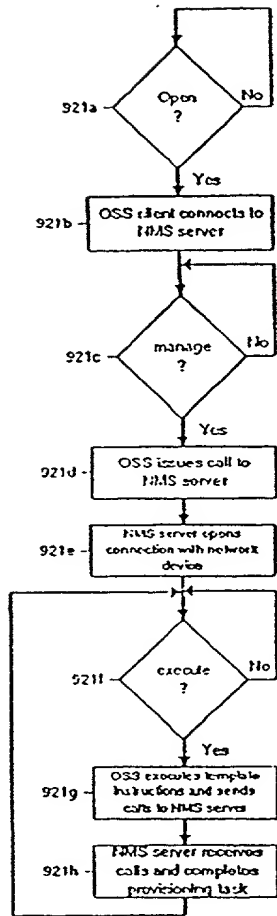
14 Command Prompt [?] - enetcis
Enetc11>
Enetc11>
Enetc11>
Enetc11>
Enetc11>
Enetc11>
Enetc11>
Enetc11>
Enetc11>
Enetc11> help
Commands are:

bye
close
execute
help
load
manage
open
quit
showCurrent
showTemplate
set
status
writeCurrent
writeTemplate
Enetc11>
Enetc11> showCurrent SPATH
Name=Name=Path1\1
Concatenated=false
Name=Path1\1
Operator=SPATH
PortID=1
Positional
Service=AIM
SlotID=1
SlotID=1
Type=Terminated
Version=V1_0_0
Width=SIS3
Enetc11>
Enetc11>
Enetc11> showTemplate SPATH
Name=(String)IfTerminatedOnly?
Concatenated=(true/false)
Name=(String)
Operator=SPATH
PortID=(Integer)<1-16>
Position=(Integer)
Service=(None|AIM)
ShellID=(1(top),13(bottom))
SlotID=(Integer)<1-8>
Type=(Switched|Terminated)
Version=V1_0_0
Width=(SIS1|SIS3|SIS12|SIS48)
Enetc11>
Enetc11> status
Not currently connected to server
Supporting templates: CONTROL, FUC, SPATH, SPUC, TD, and UAIF
Enetc11>

```

Fig. 3i

Fig. 3j



F: 3K

922 Enetcl1> showCurrent CONTROL
923 Input=Q:\nns\con\equipecon\nns\util\nenetcl1
924 Interactive=false
925 Operant=CONTROL
926 Operator=Manage
927 Output=Q:\nns\con\equipecon\nns\util\nenetcl1
928 Password=None
929 System=192.168.9.202
930 User=None
931 Version=1.0.0
932 Server=LocalHost
933 Enetcl1>

Enetcl1> showCurrent CONTROL
Input=Q:\nns\con\equipecon\nns\util\nenetcl1
Interactive=false
Operant=CONTROL
Operator=Manage
Output=Q:\nns\con\equipecon\nns\util\nenetcl1
Password=None
System=192.168.9.202
User=None
Version=1.0.0
Server=LocalHost
Enetcl1>

724) -Task53=execute-SPATII

-1.3.3m

← 925

Operant=BATCH

Operator=Execute

Version=VI_1_0_0

925a—Task1=execute-CONTROL

925b—Task2=execute-SPATH

925c—Task3=set-SPATH-PortID-3

925d—Task4=execute-SPATH

5e—Task61=set-CONTROL-System-192.168.9.201

25f—Task62=execute-CONTROL

25g—Task63=execute-SPATH

925h—Task108=close

925i—Task109=set-CONTROL-Server-Server1

925j—Task110=set-CONTROL-System-192.168.8.200

925k—Task111=execute-CONTROL

925l—Task112=execute-SPATH

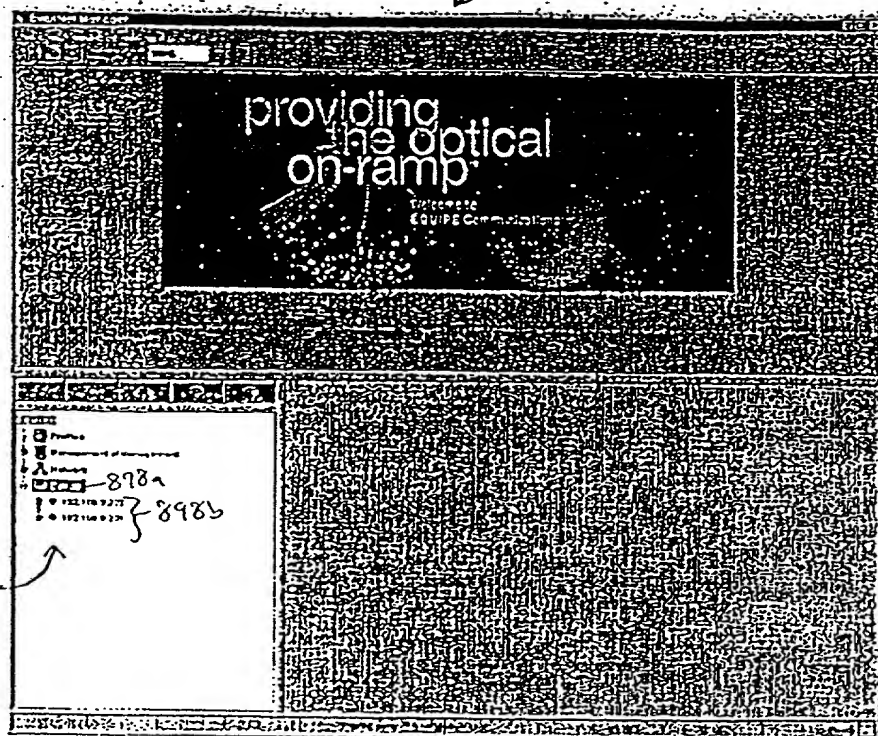


Fig. 4a

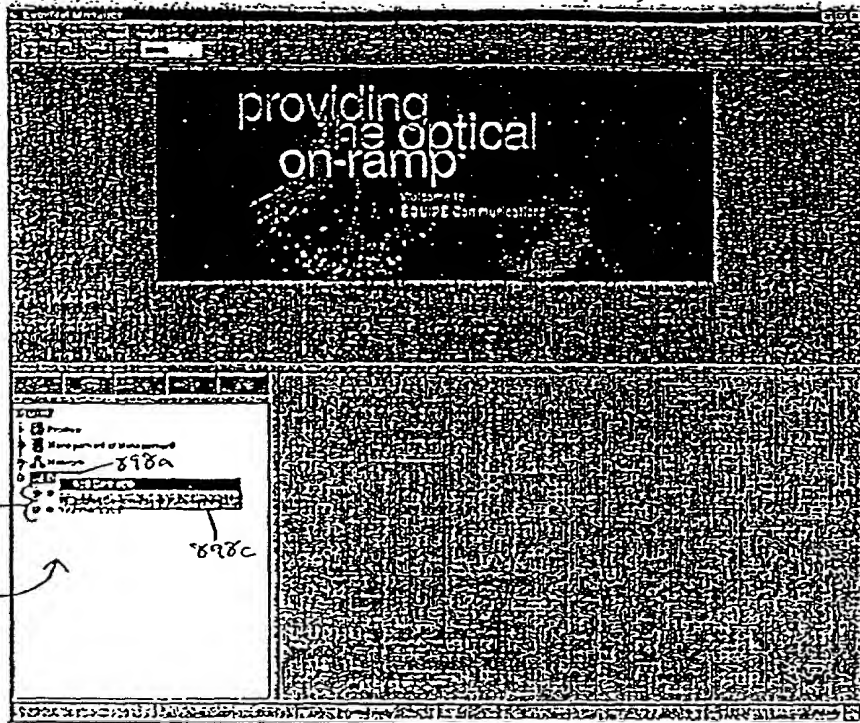
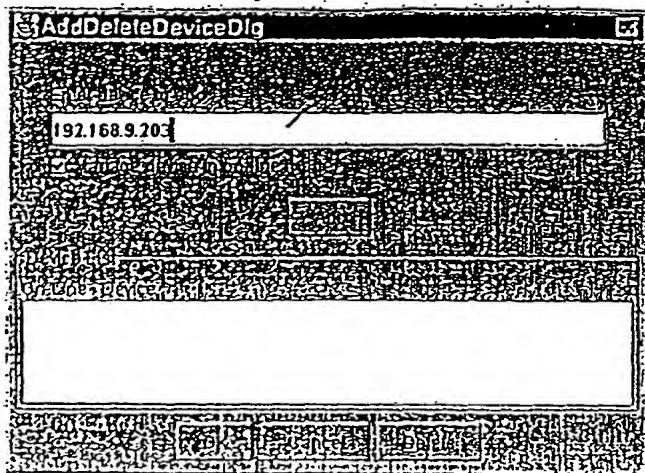


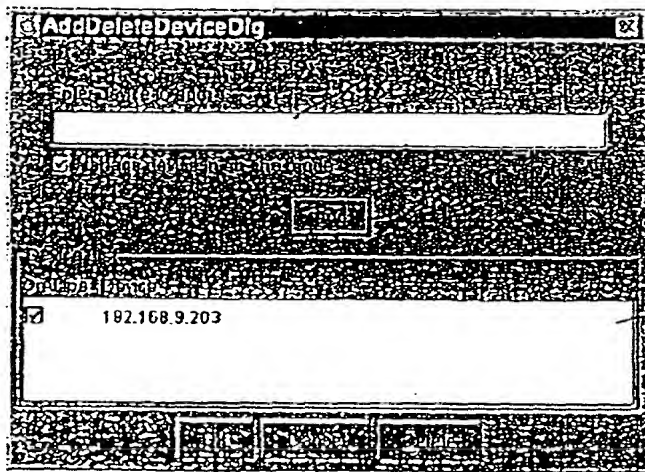
Fig. 45

Fig. 4c



898d

Fig. 4d



898d

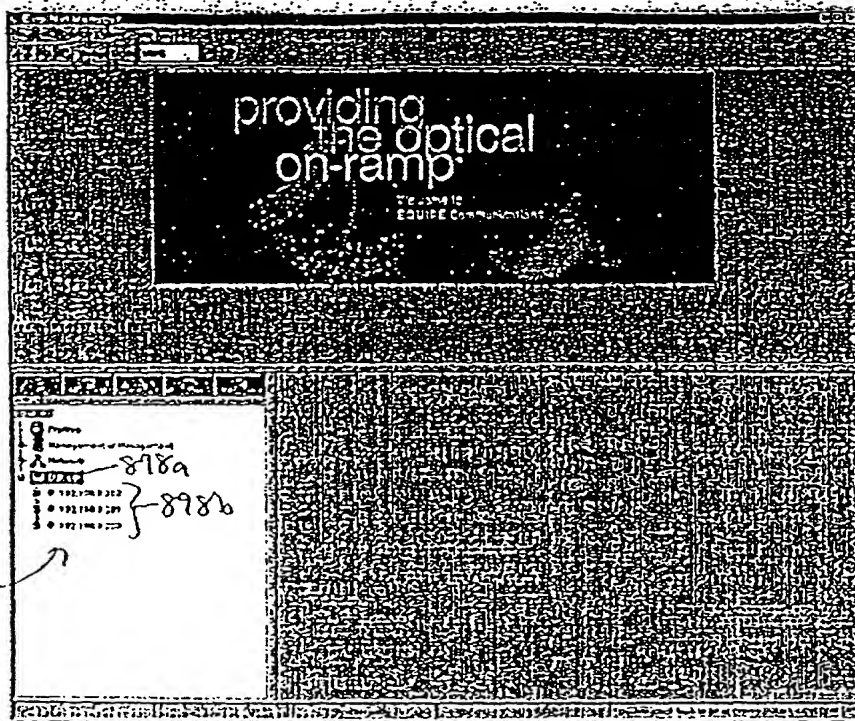
898g

898j

898i

898h

895



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- Privacy Policy

878a

878b

878

Fig. 4e

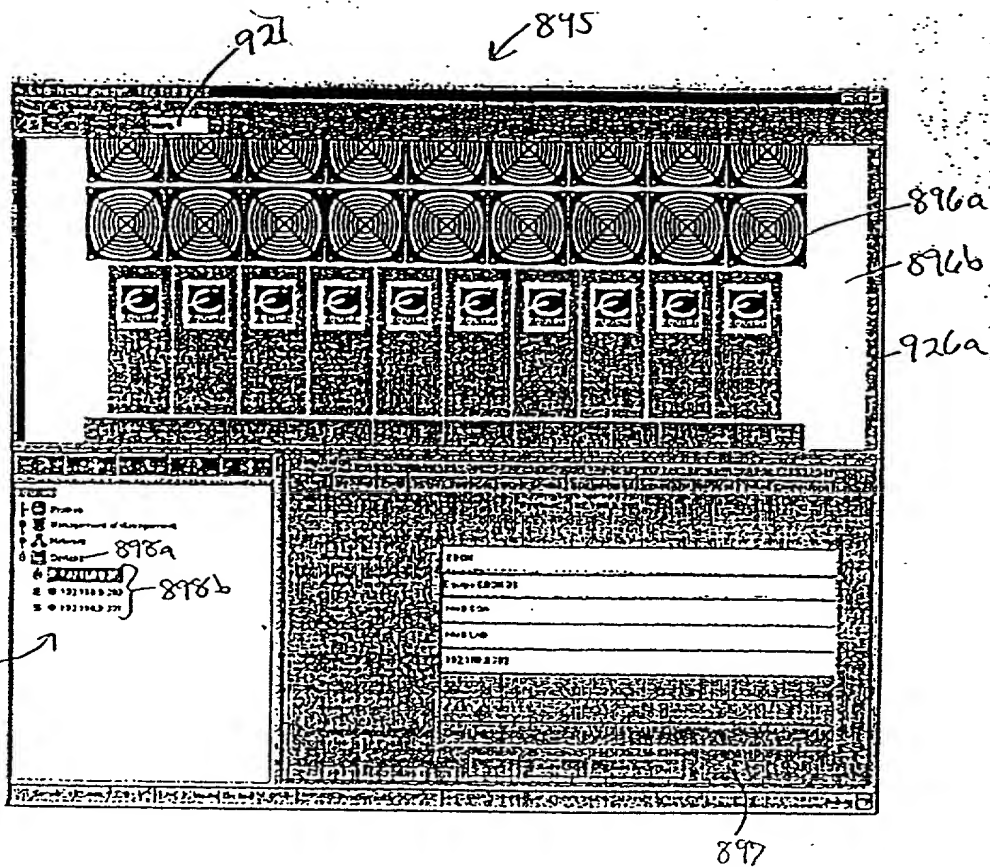


Fig. 4g

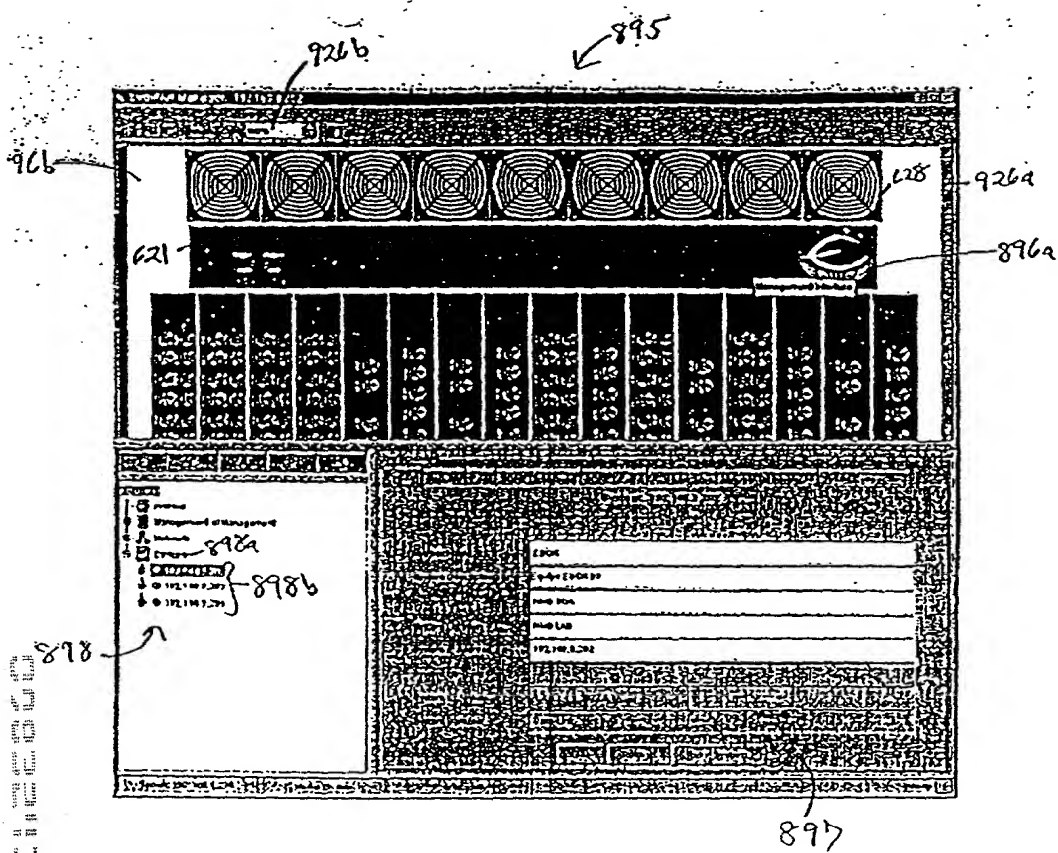


Fig. 4i

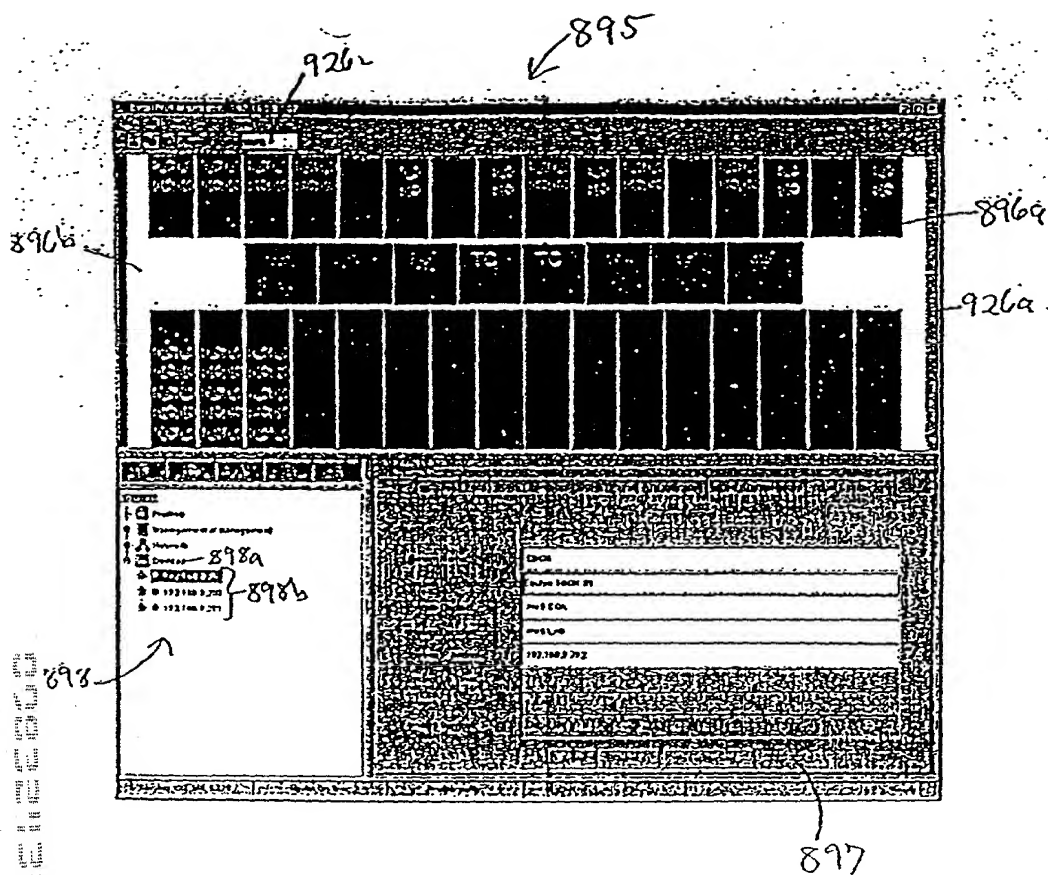


Fig. 4j

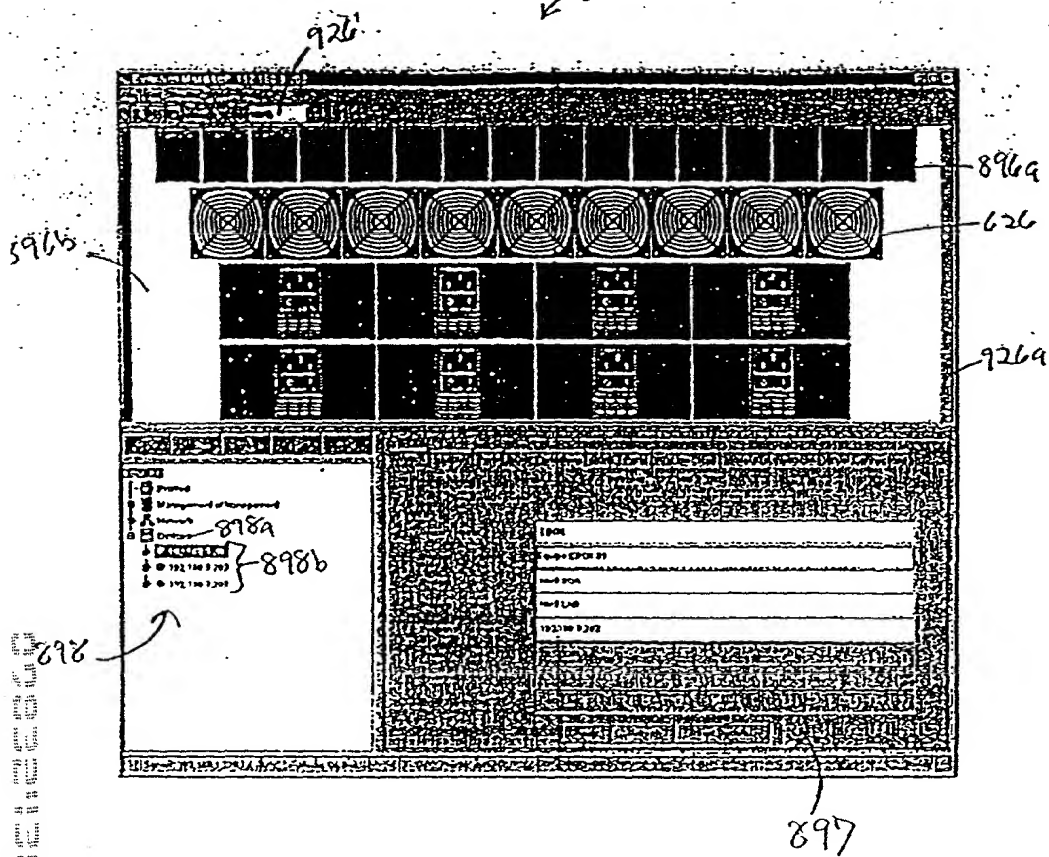
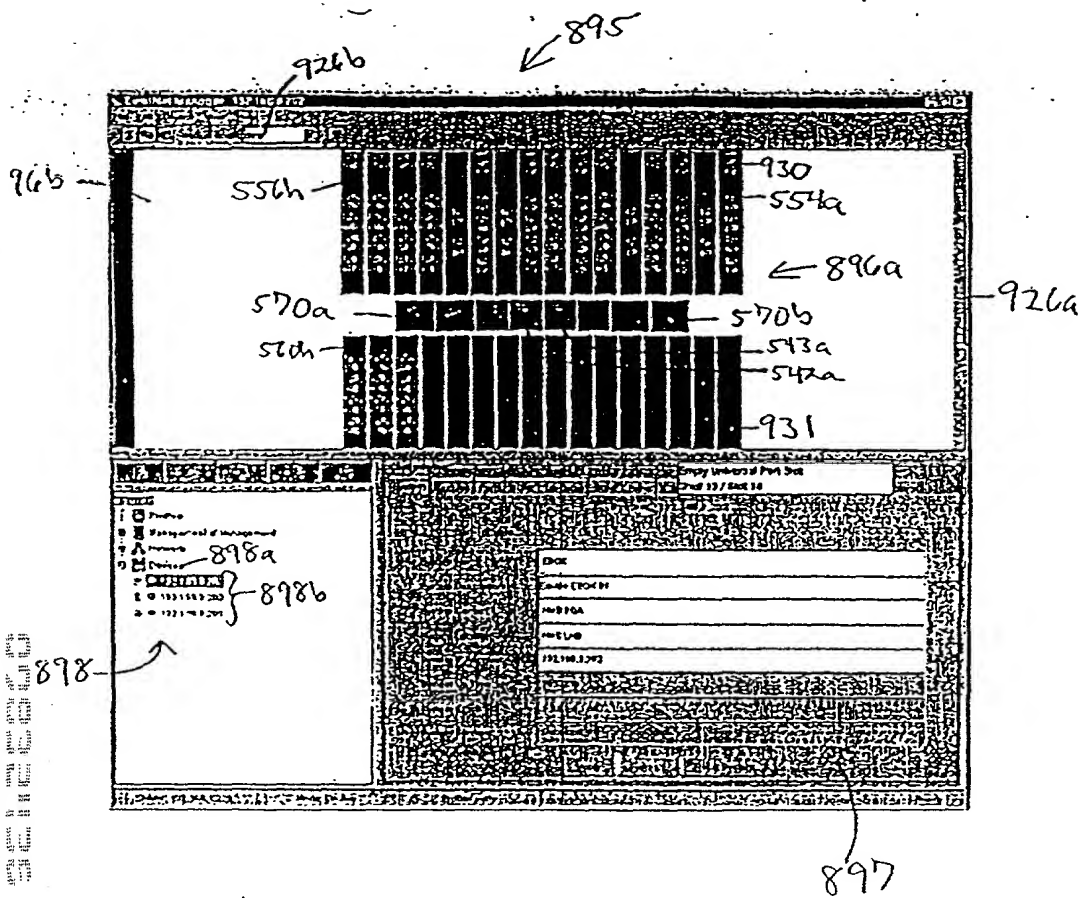
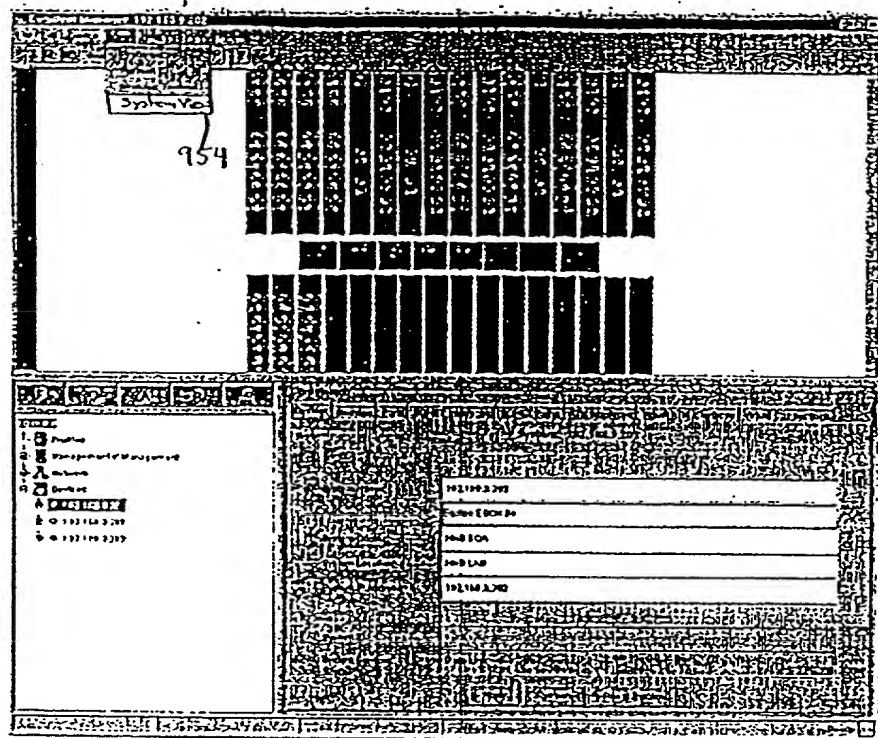
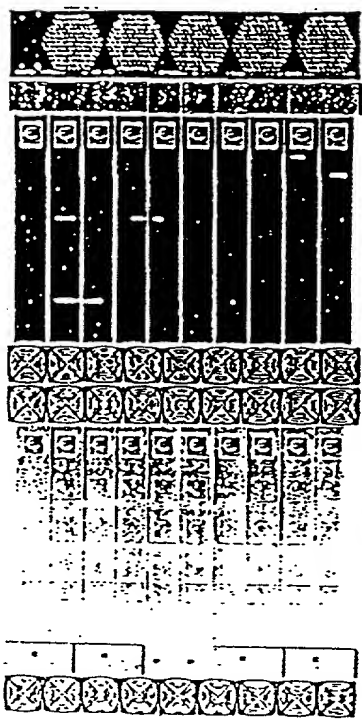


Fig. 4K

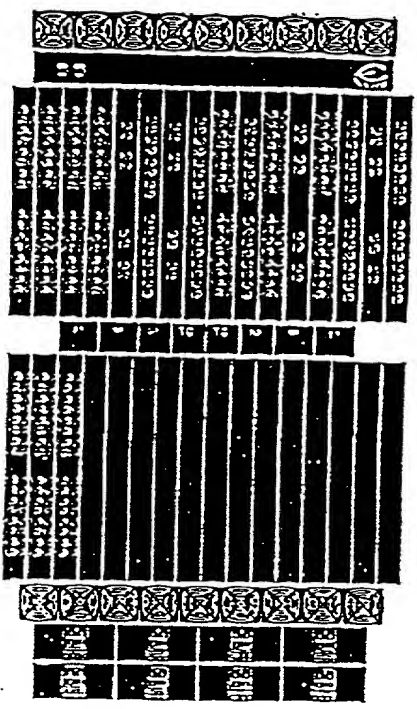




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Fig. 4n

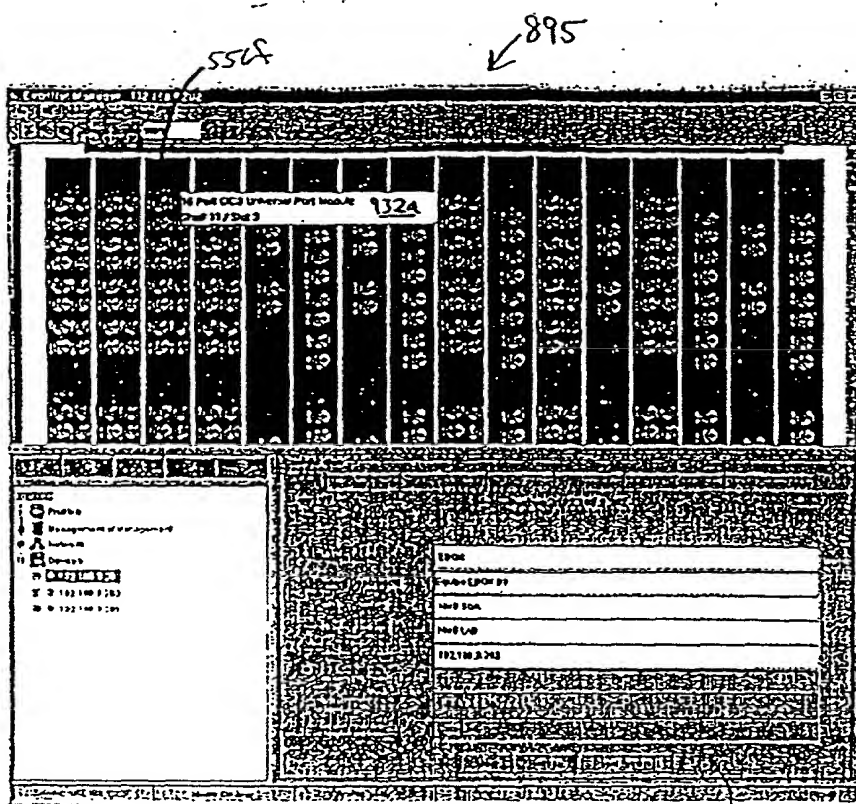
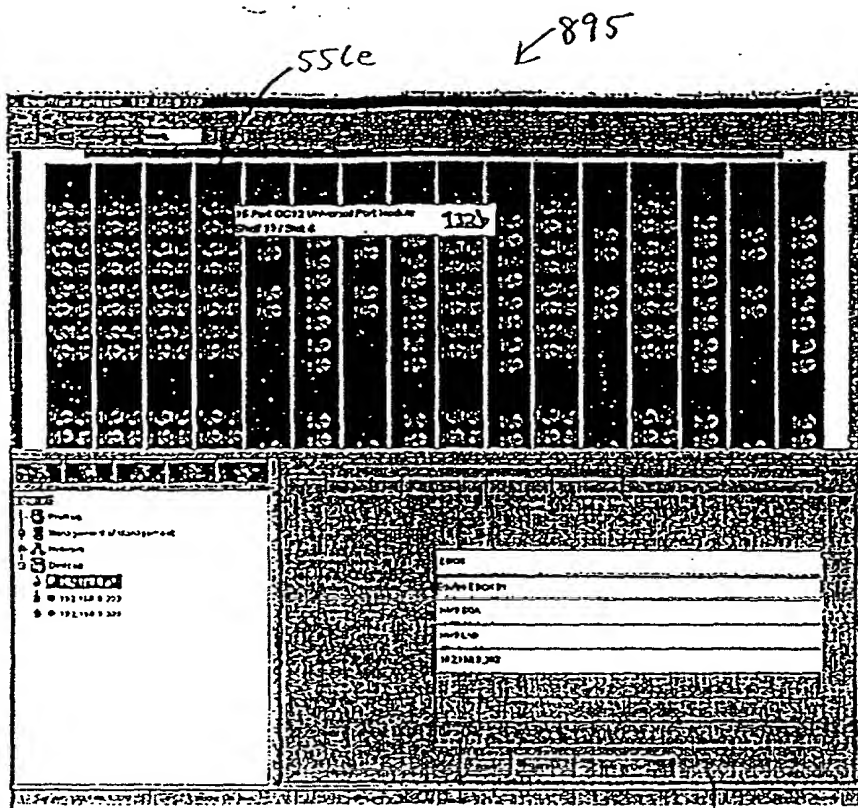


Fig. 40



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Fig. 4p

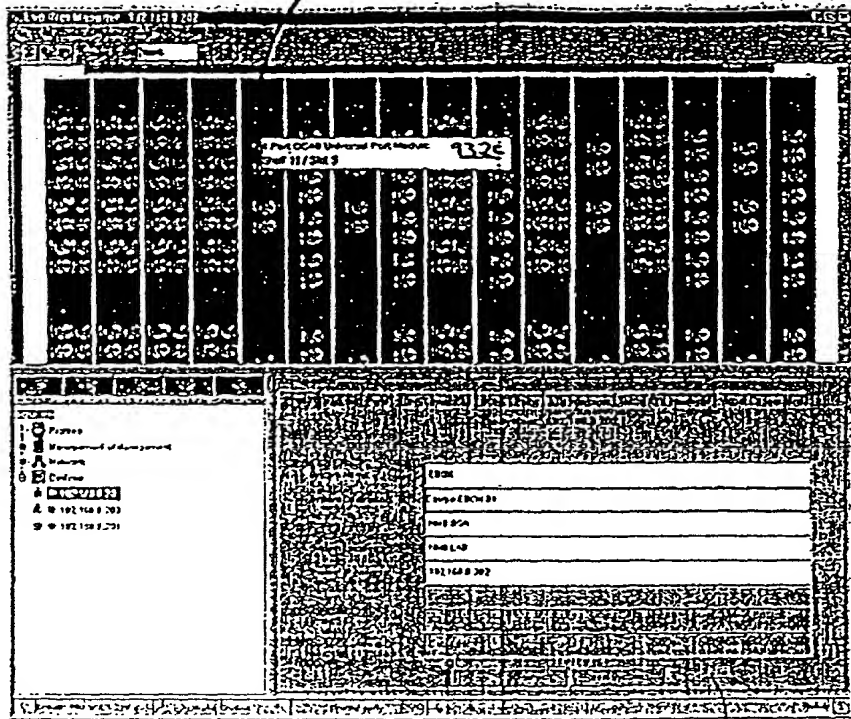


Fig. 4g

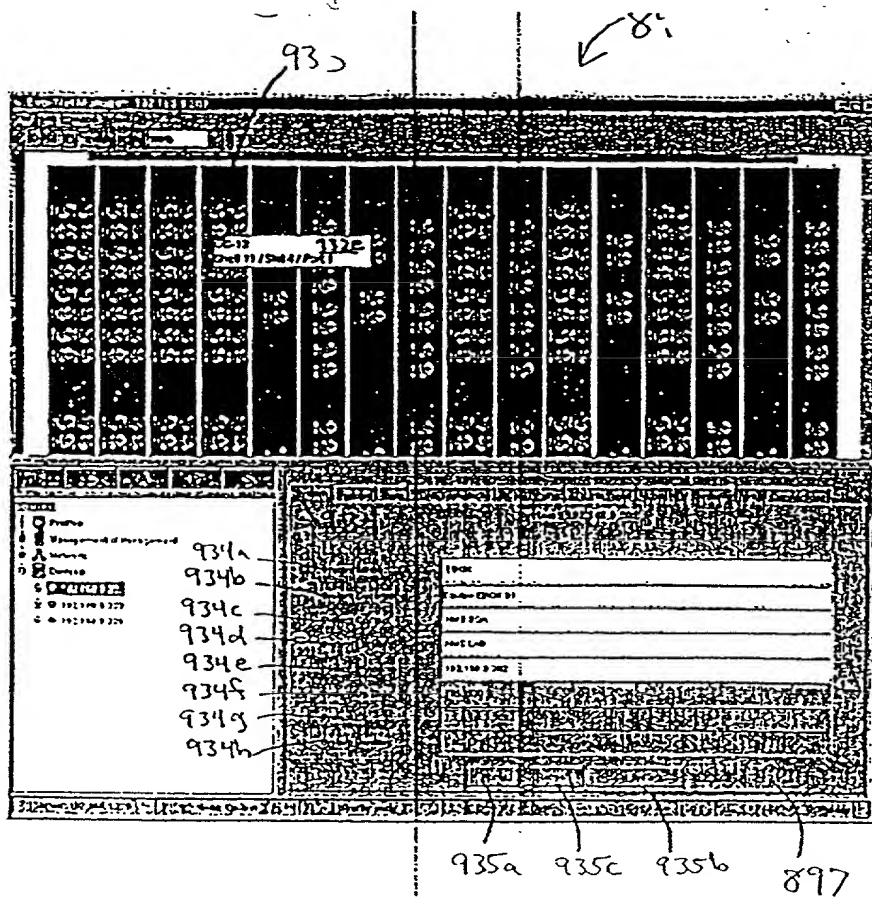


Fig. 4s

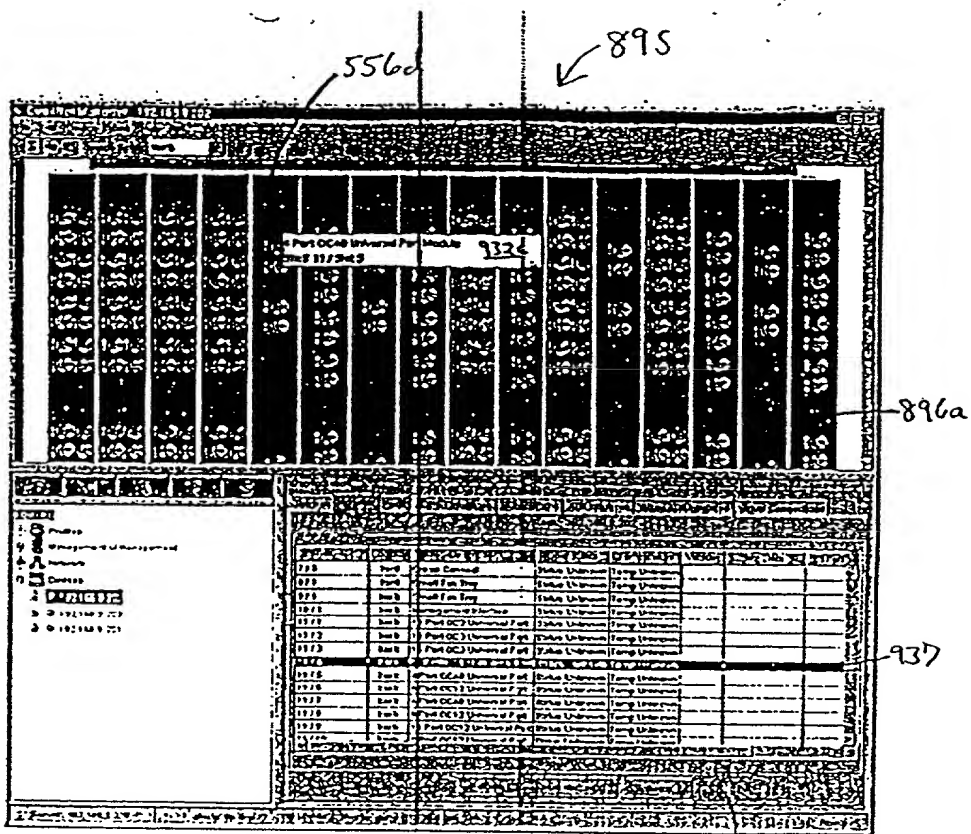


Fig. 4+

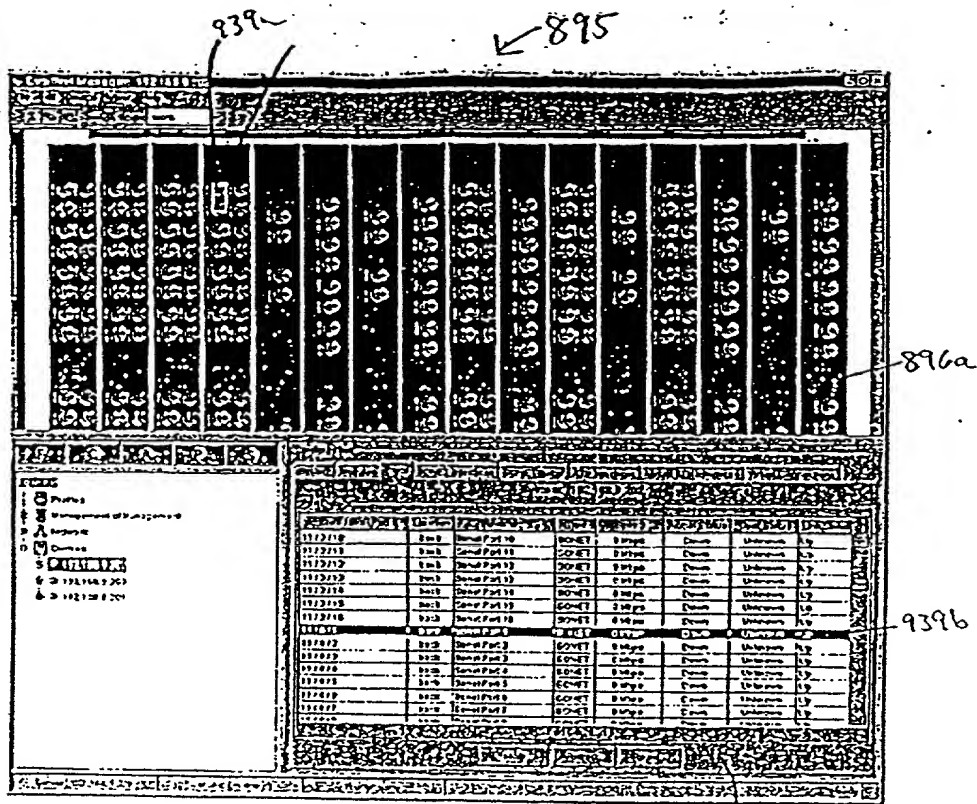


Fig. 4u

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Fig. 4v

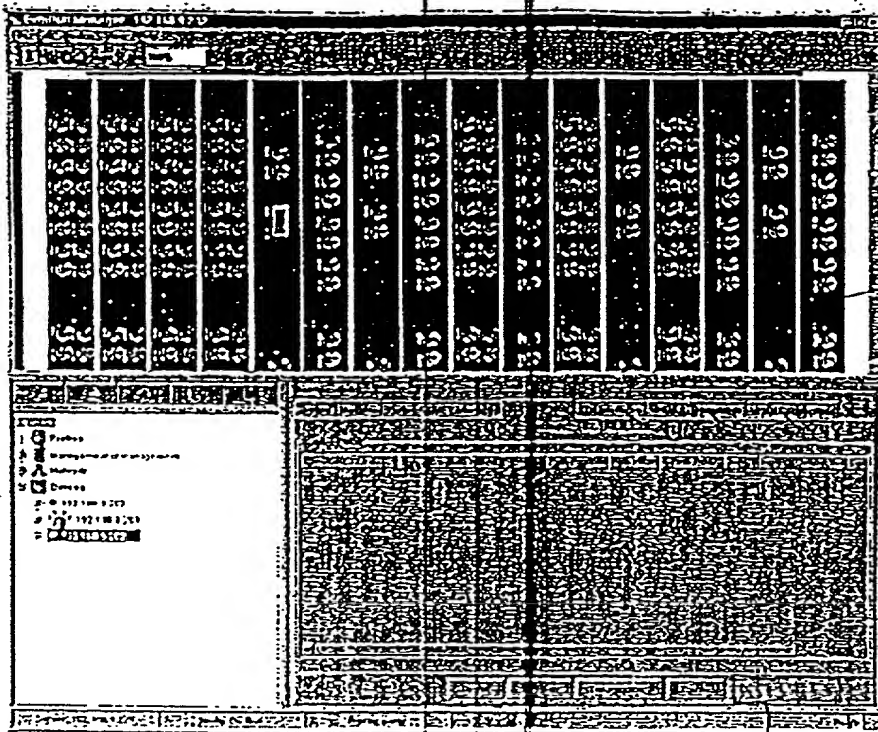


Fig. 4w

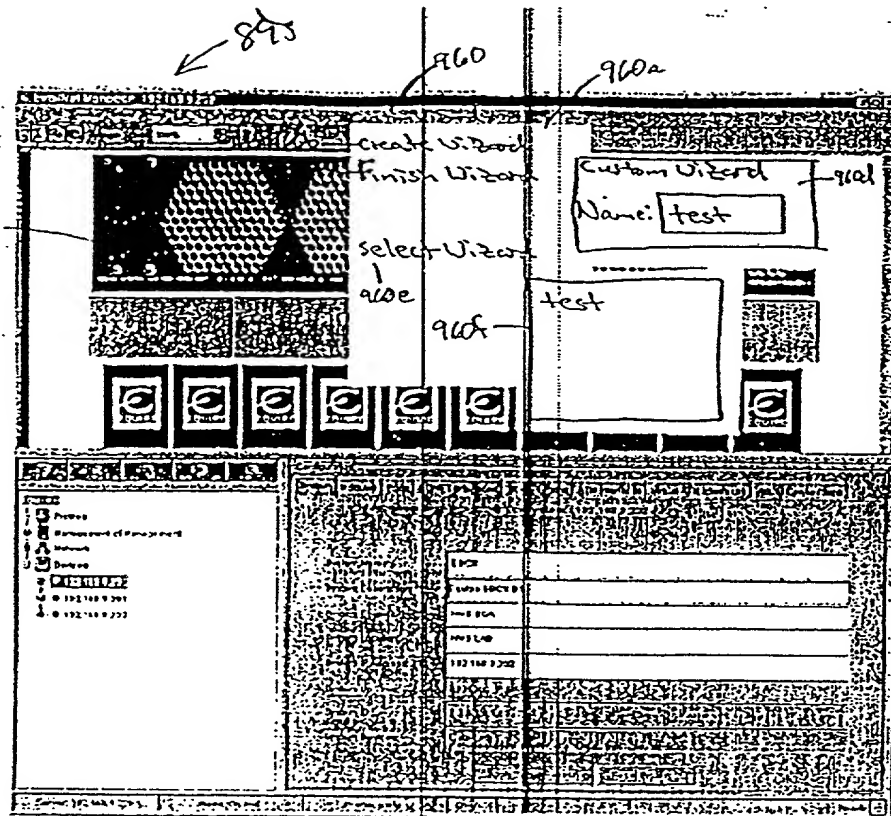


Fig. 4y

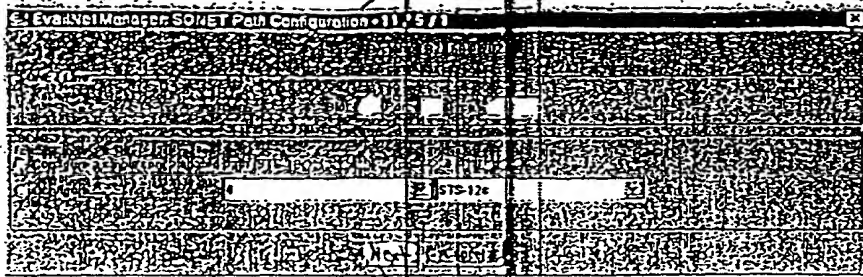
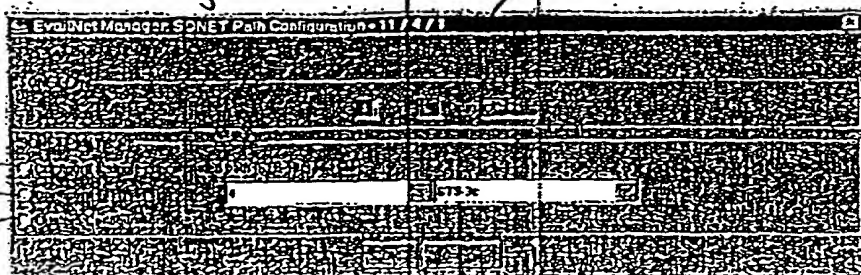


Fig. 42

Fig. 5b

944

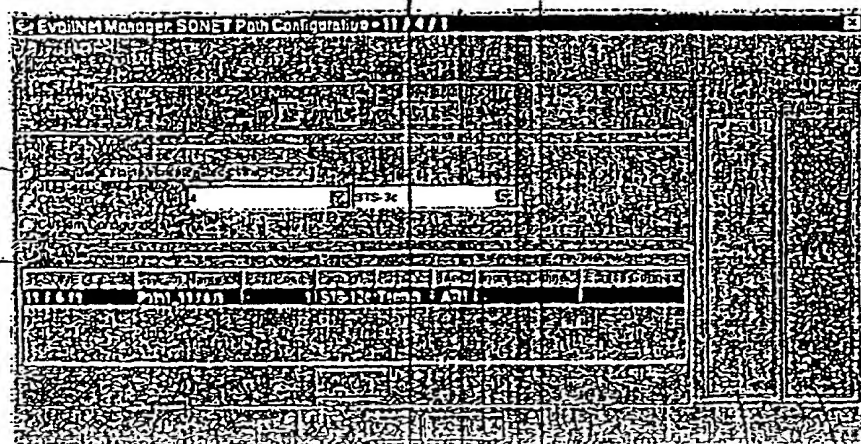


7111b

444c

7111d

944a



944

944c

944d

Fig. 5c

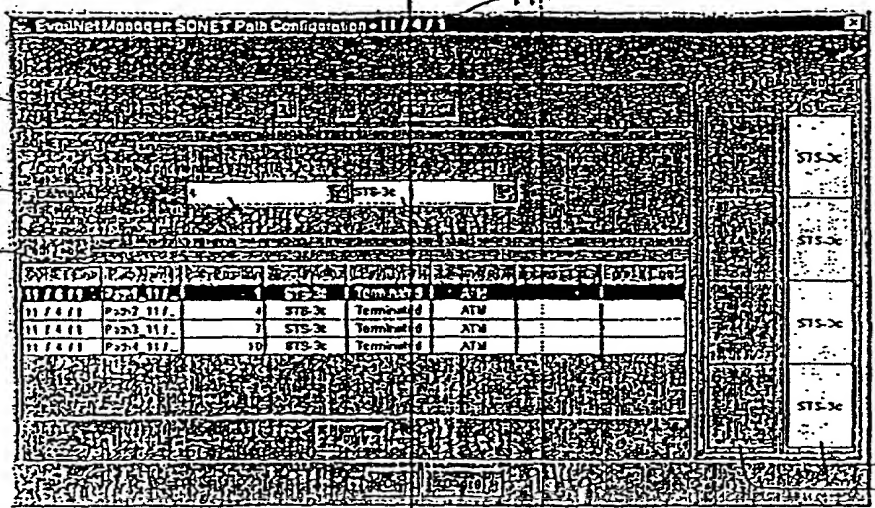
4-55d

944

944a

944b

944g



944f

944e

944a

944b

944g



944

944e

944f

Fig. 5e

Fig. 5f

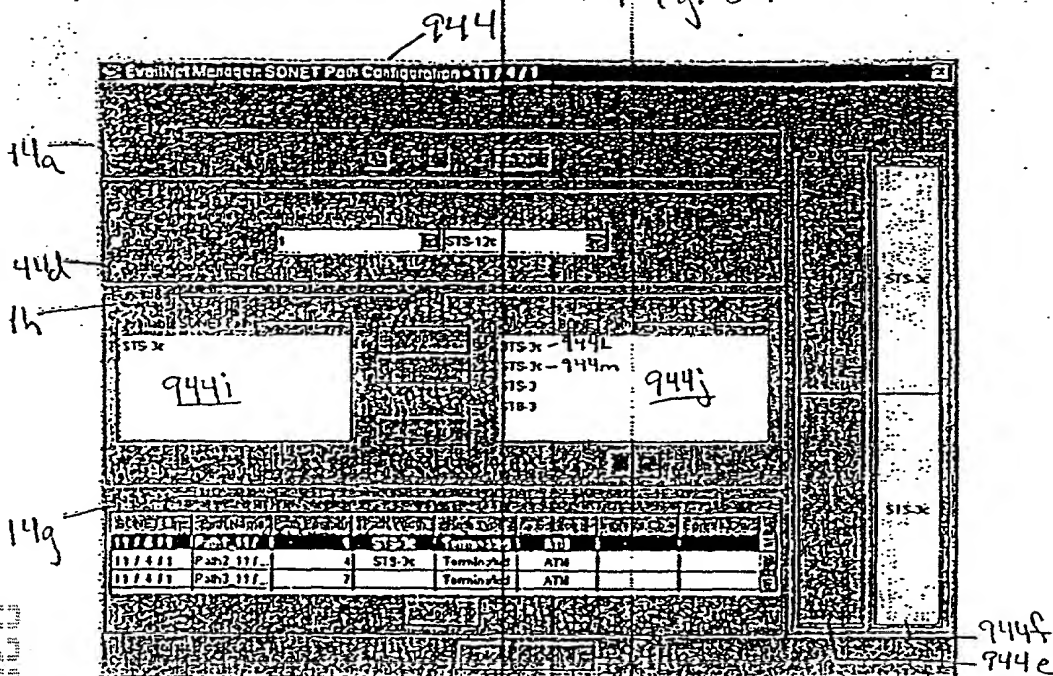


Fig. 5f is a screenshot of the EvolNet Manager SONET Path Configuration window. The window displays a table of paths. The paths are listed in the table below:

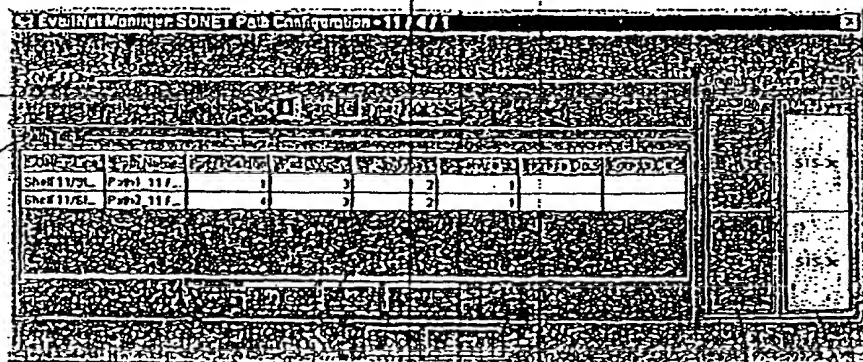


Fig. 5g

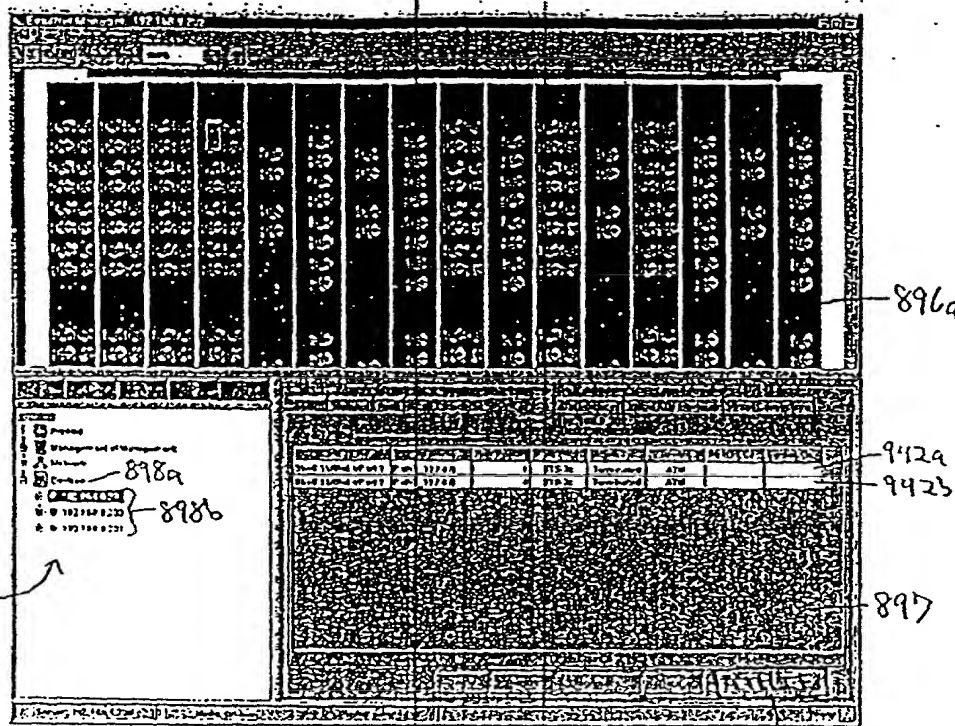
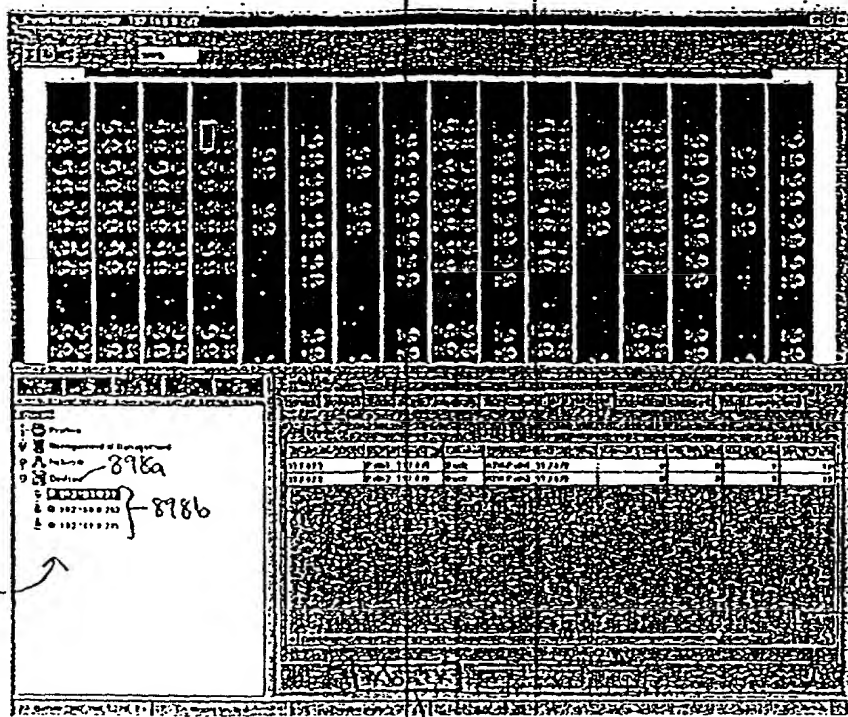


Fig. 5h

895



946a
946b

897

946b

Fig. 5i

Fig. 5j

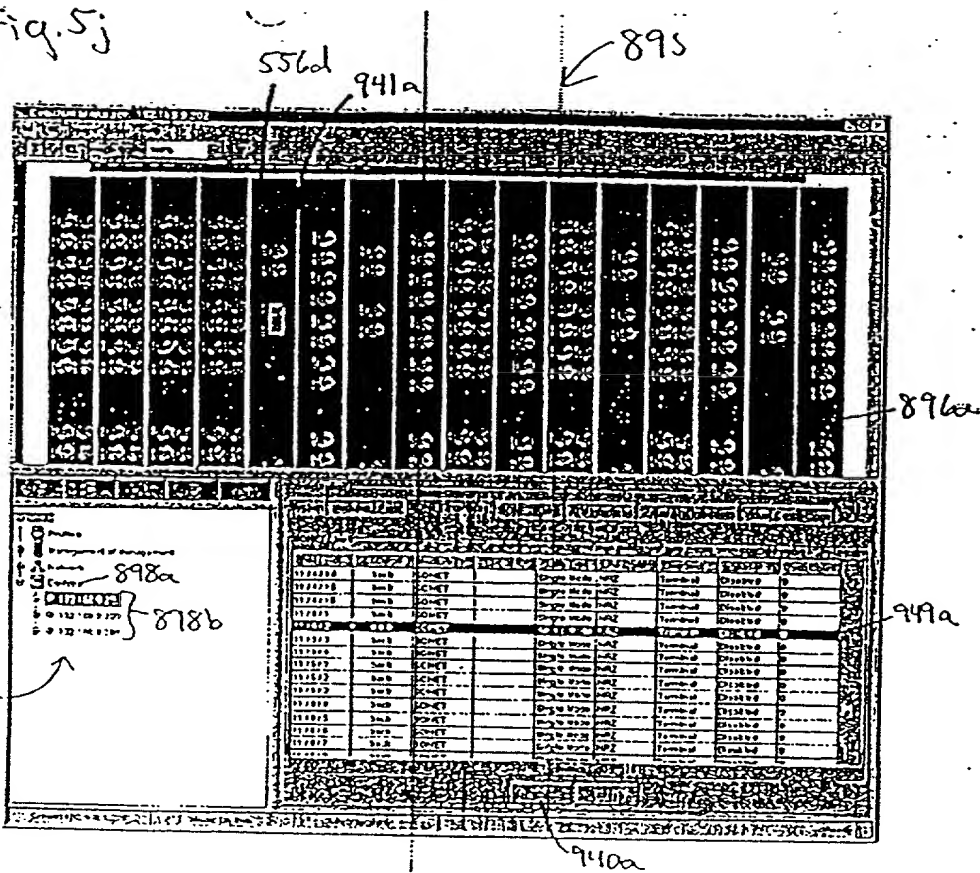


Fig. 5K

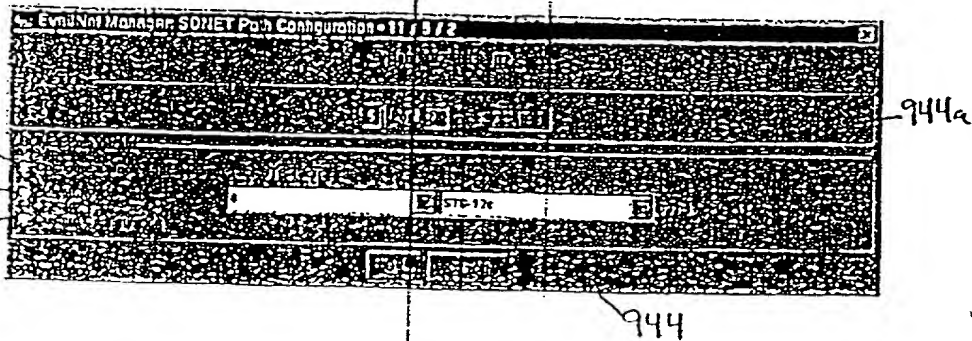


Fig. 5L

944

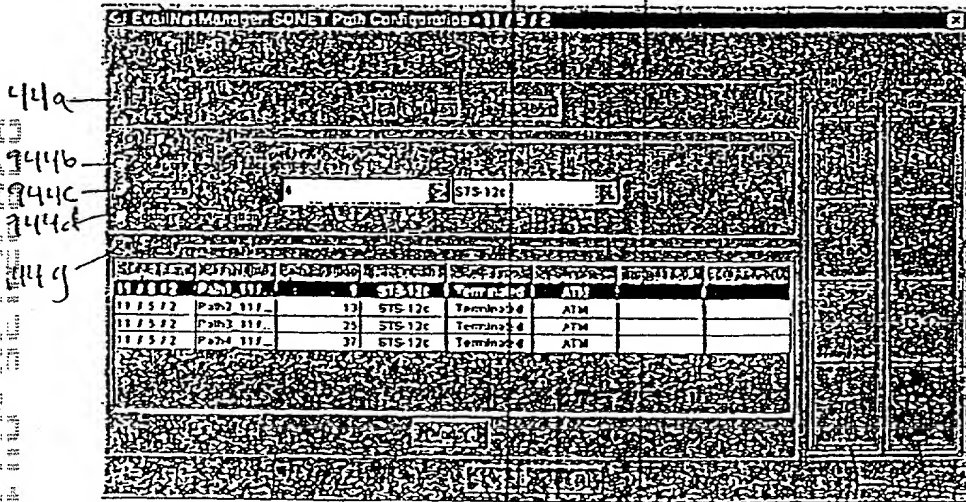
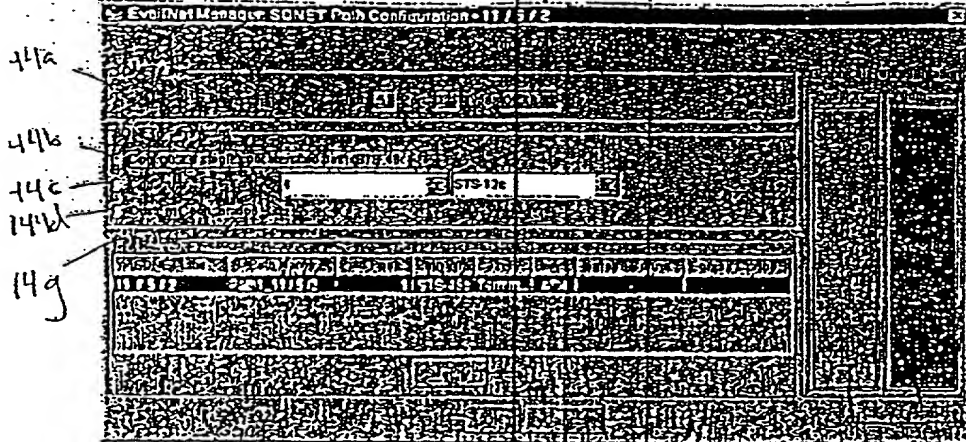


Fig. 5m

944

944

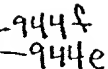


Fig. 50

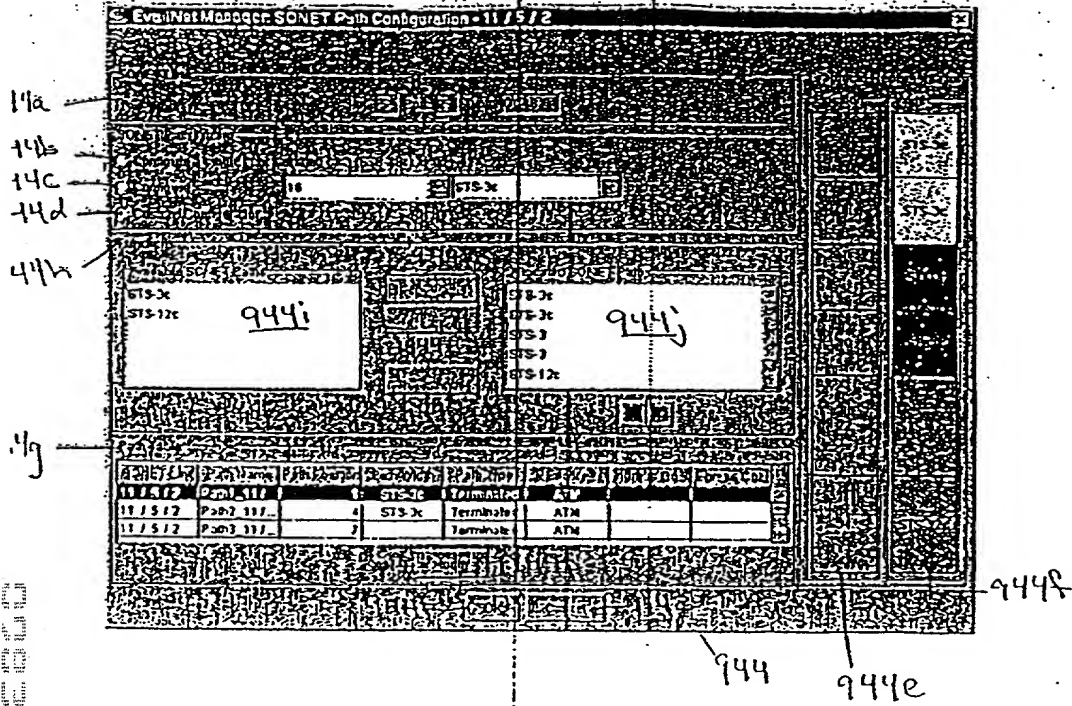
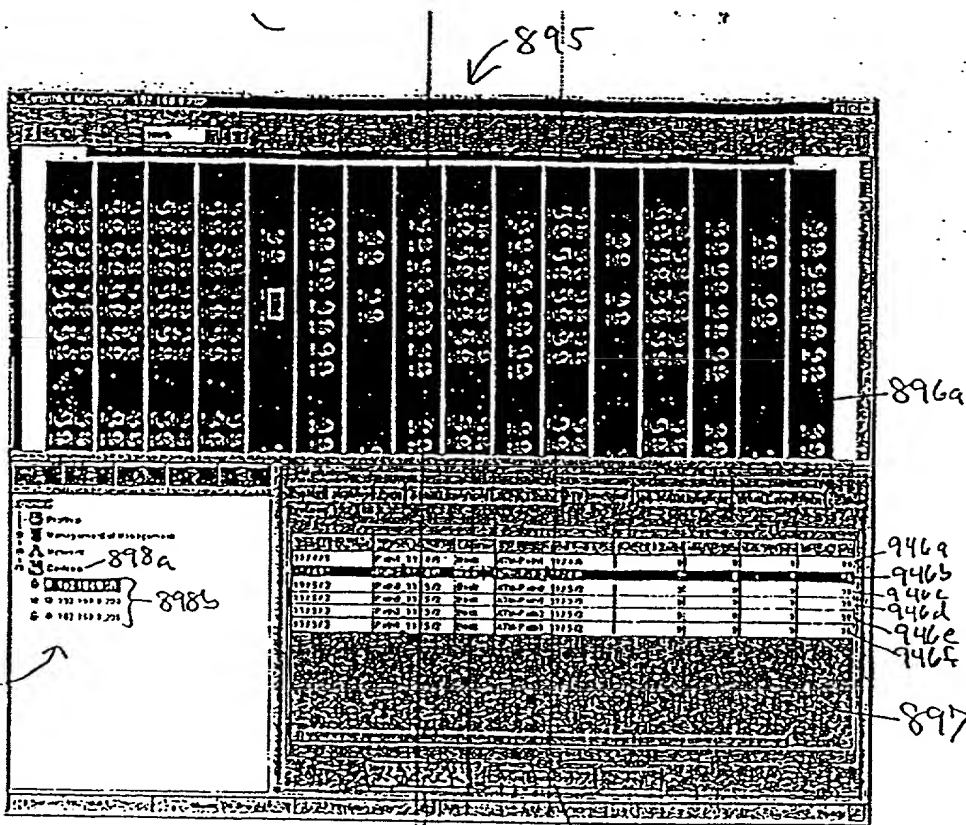


Fig. 5P



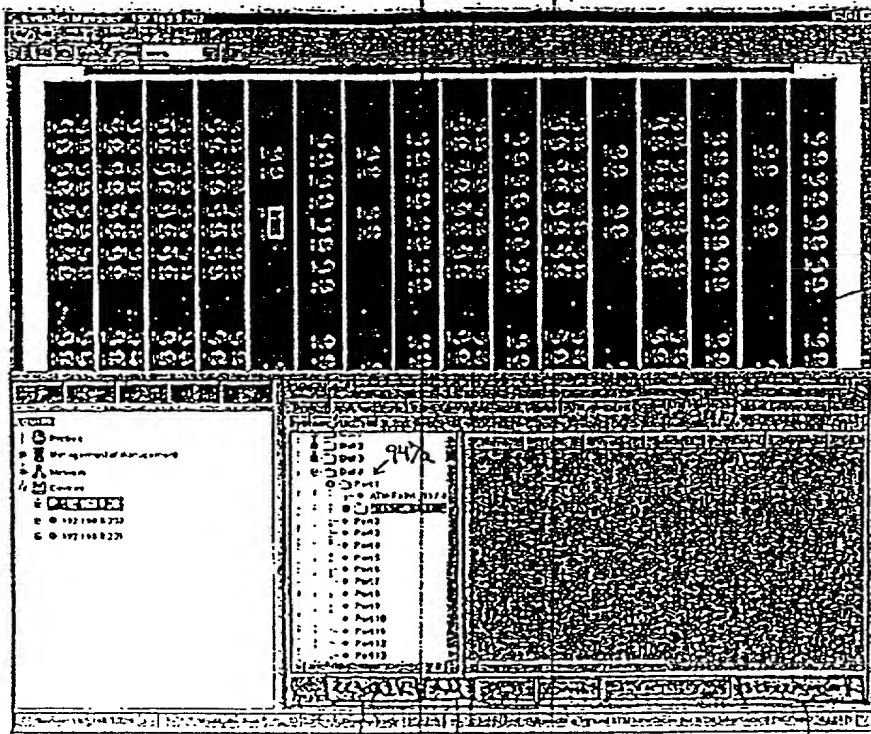


Fig. 5s

Fig. 5.6

Add V-ATM Interface - 192.168.9.202	
Supports V-ATM	Yes
Virtual ATM Interface Name	Virtual ATM Interface 1
IP Address	192.168.9.202
Subnet Mask	255.255.255.0
Default Gateway	192.168.9.1
Link Type	Direct Link
Link Name	UNI Network 3.1
Link Status	Up

Fig. 5u

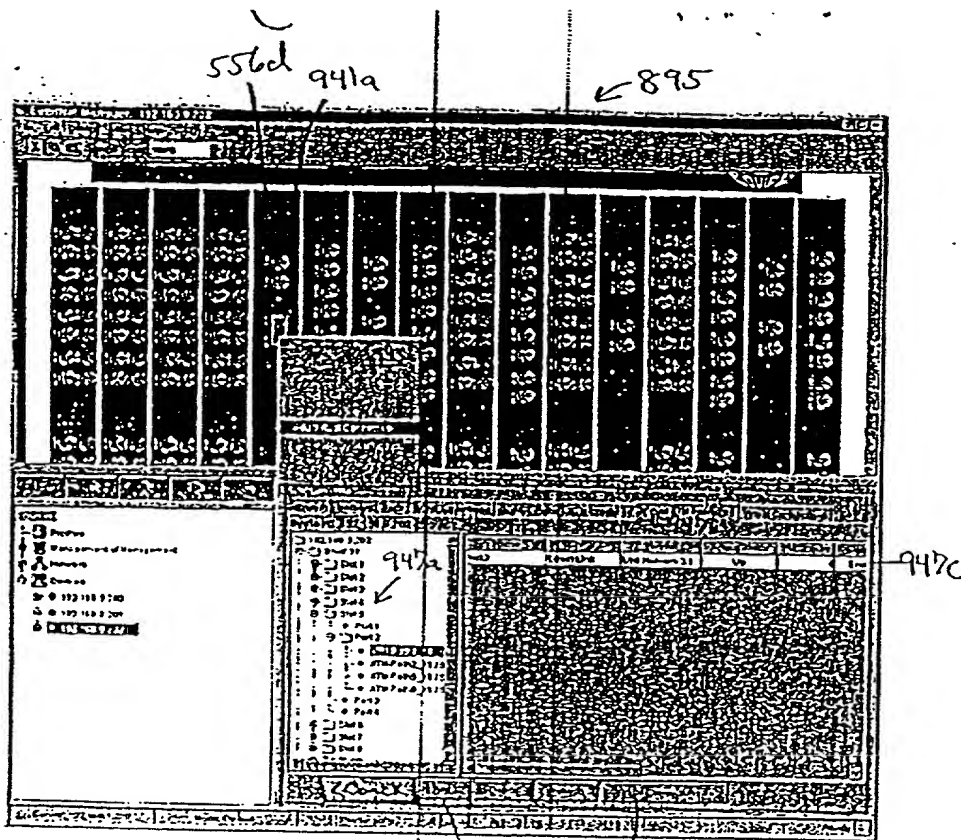


Fig. 5v.

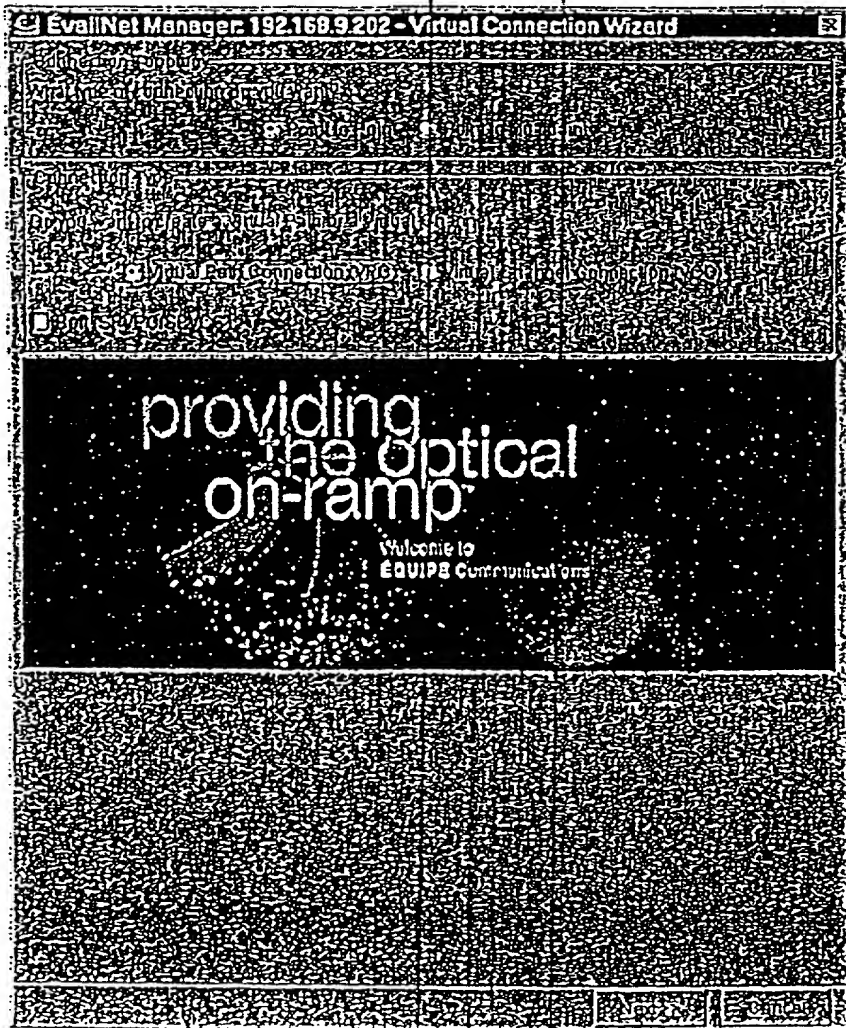


Fig. 5w

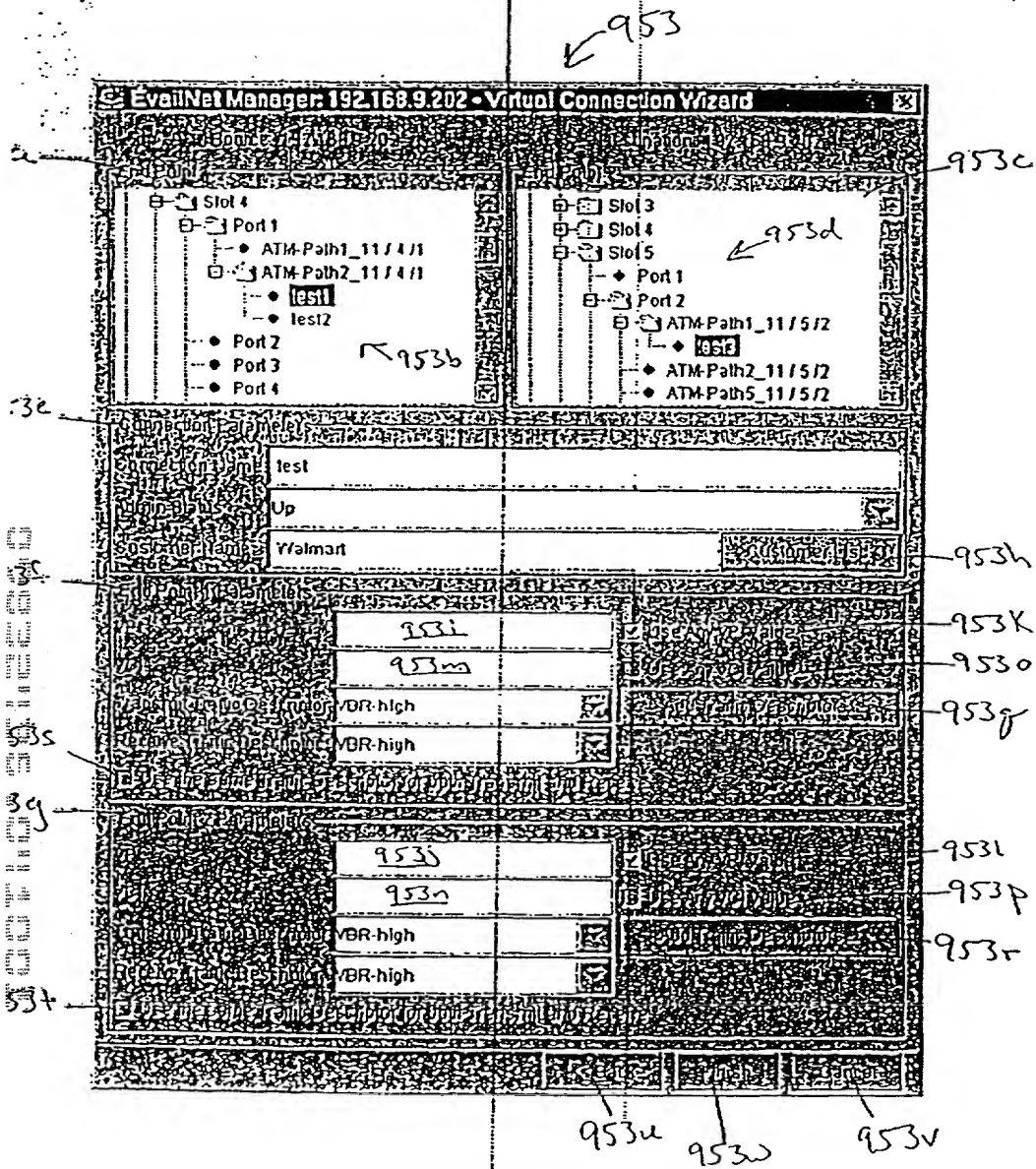
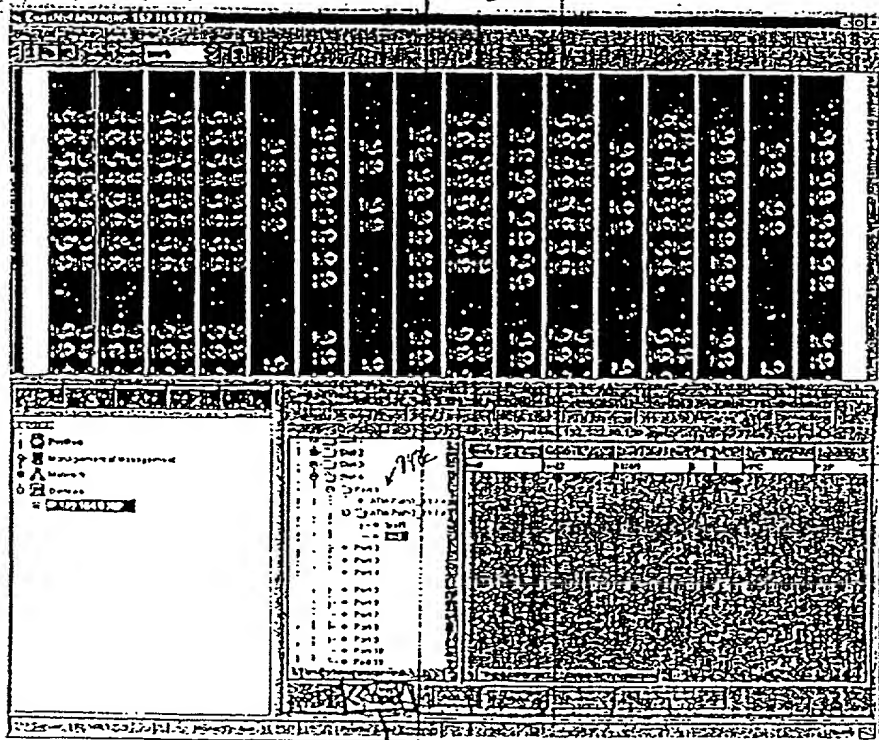


Fig. 5x

956

New Traffic Descriptor	
Name:	<input type="text"/>
QoS Class:	<input type="text"/> ▾
Type:	<input type="text"/> ▾
<div>OK</div> <div>Cancel</div>	

FIG. 5Y



895

948a

948b

Fig. 57

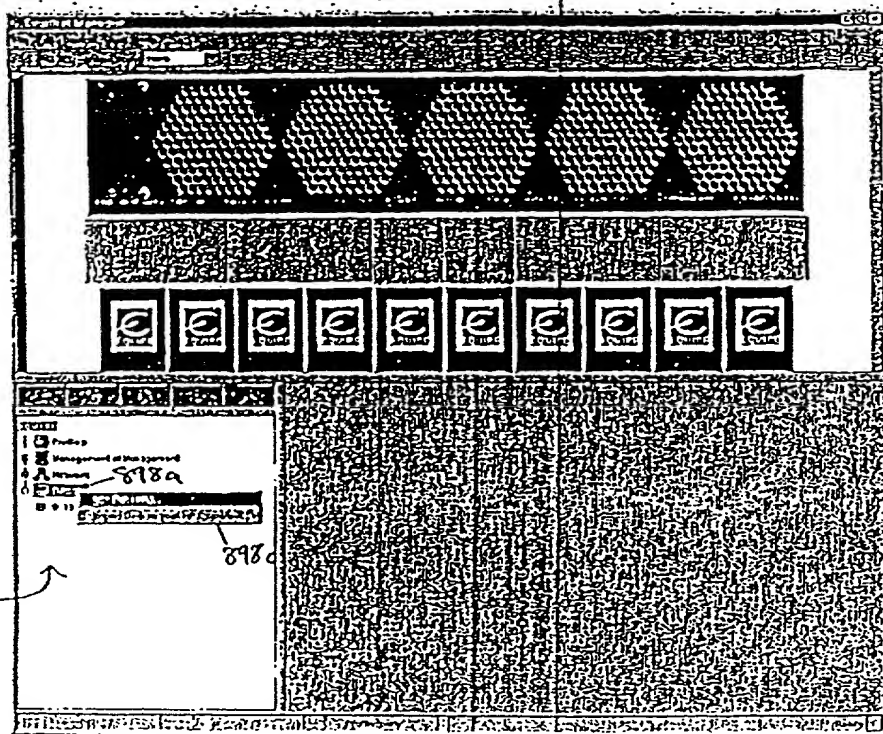


Fig. 6a

Fig. 6b

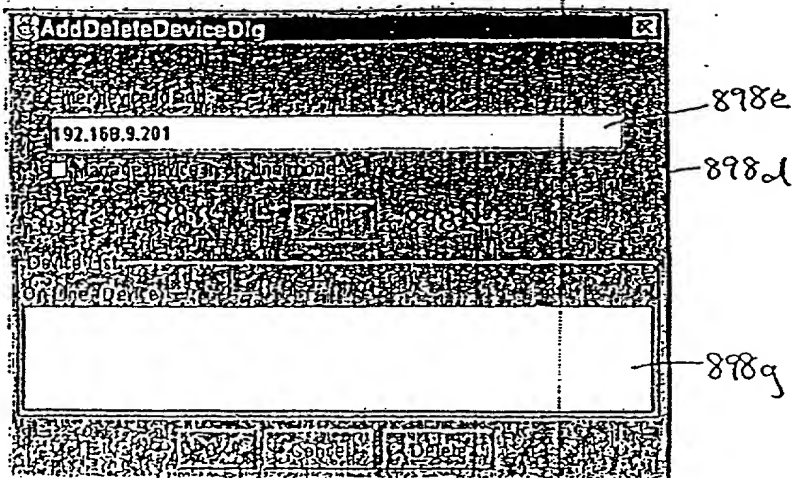
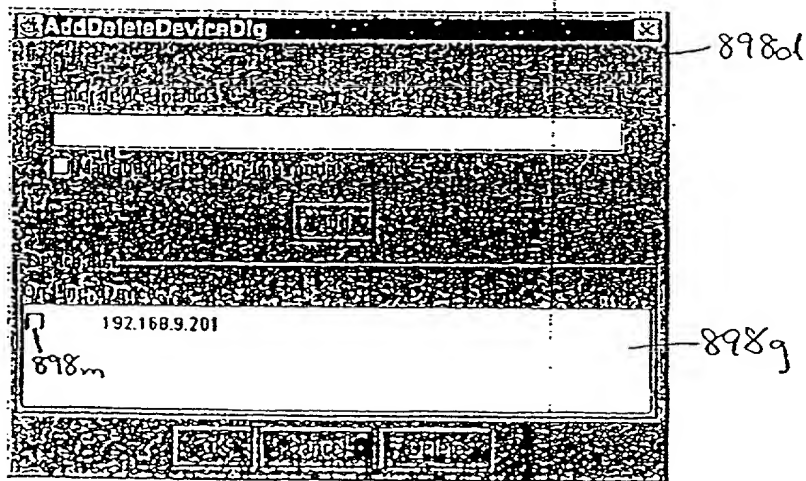


Fig. 6c



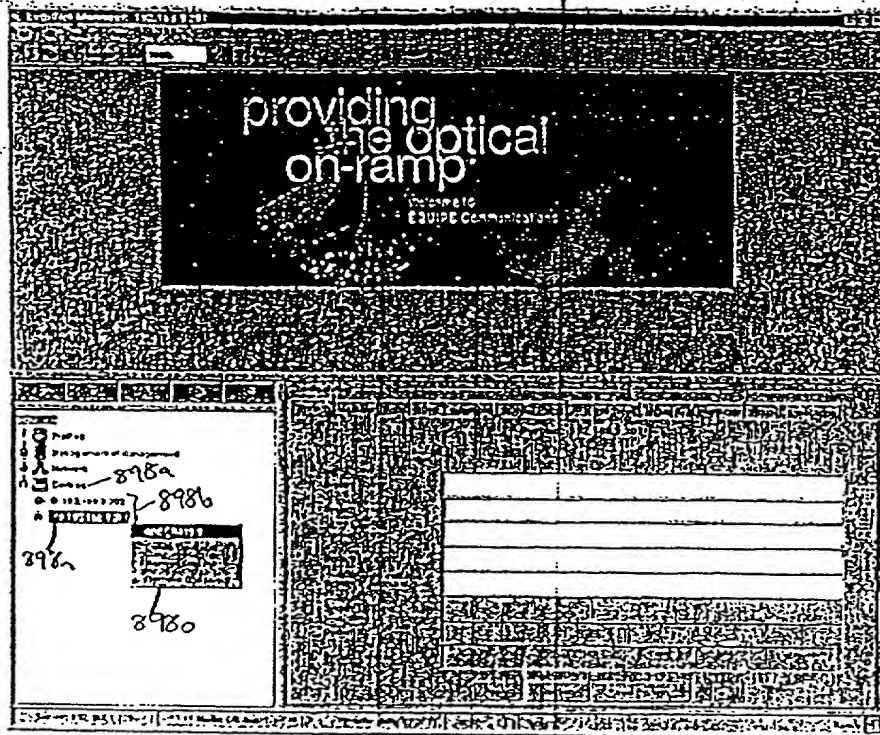


Fig. 6d

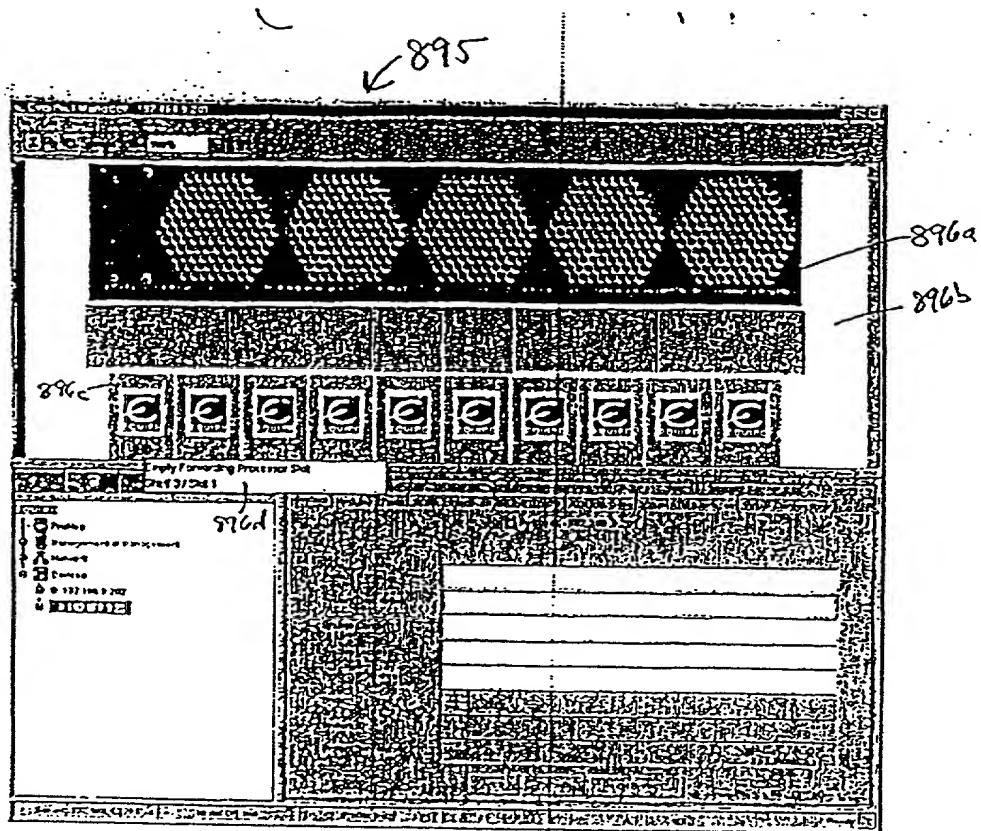


Fig. 6e

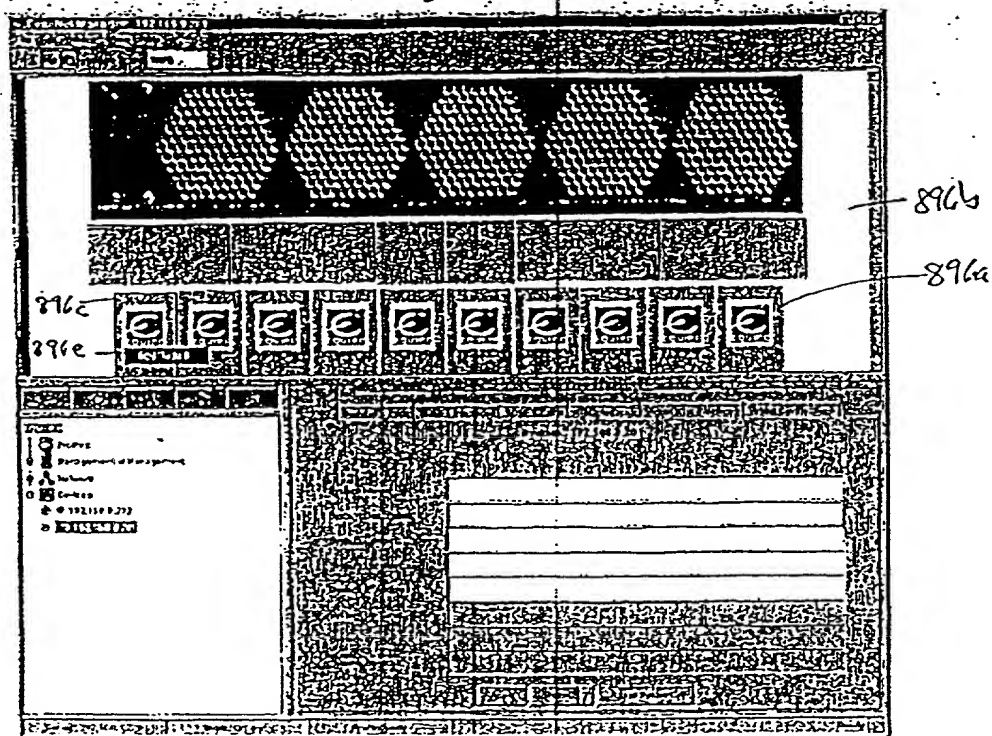


Fig. 6f

895

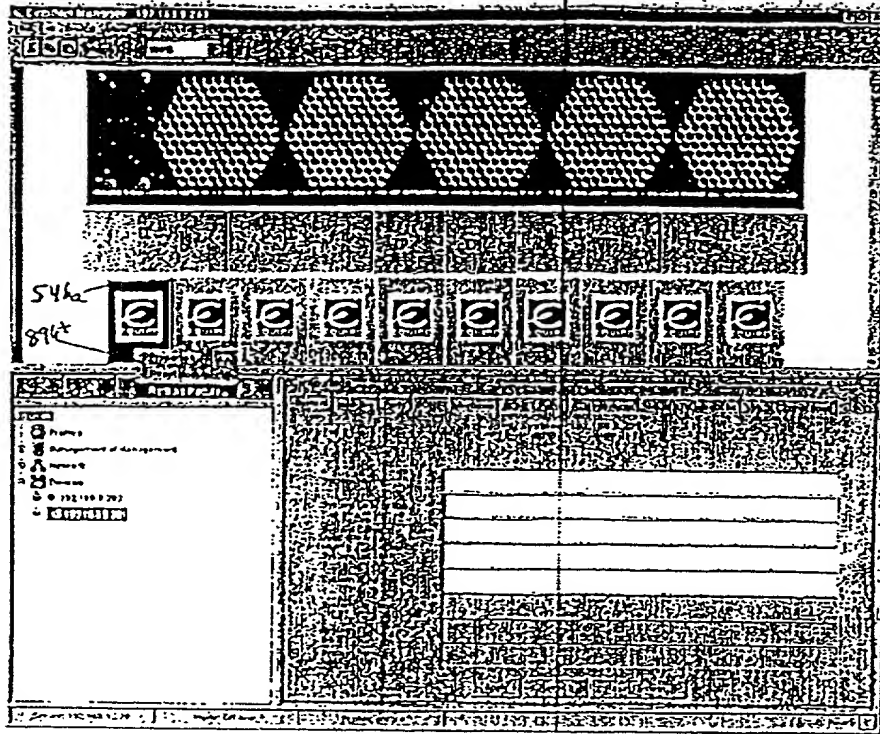


Fig. 69

895

768

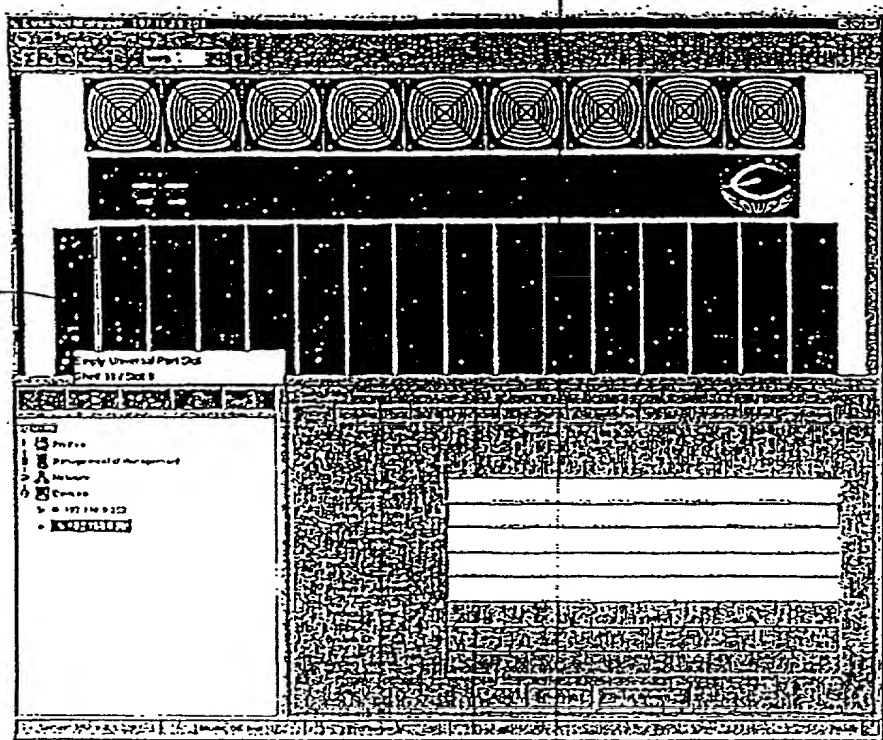


Fig. 6h

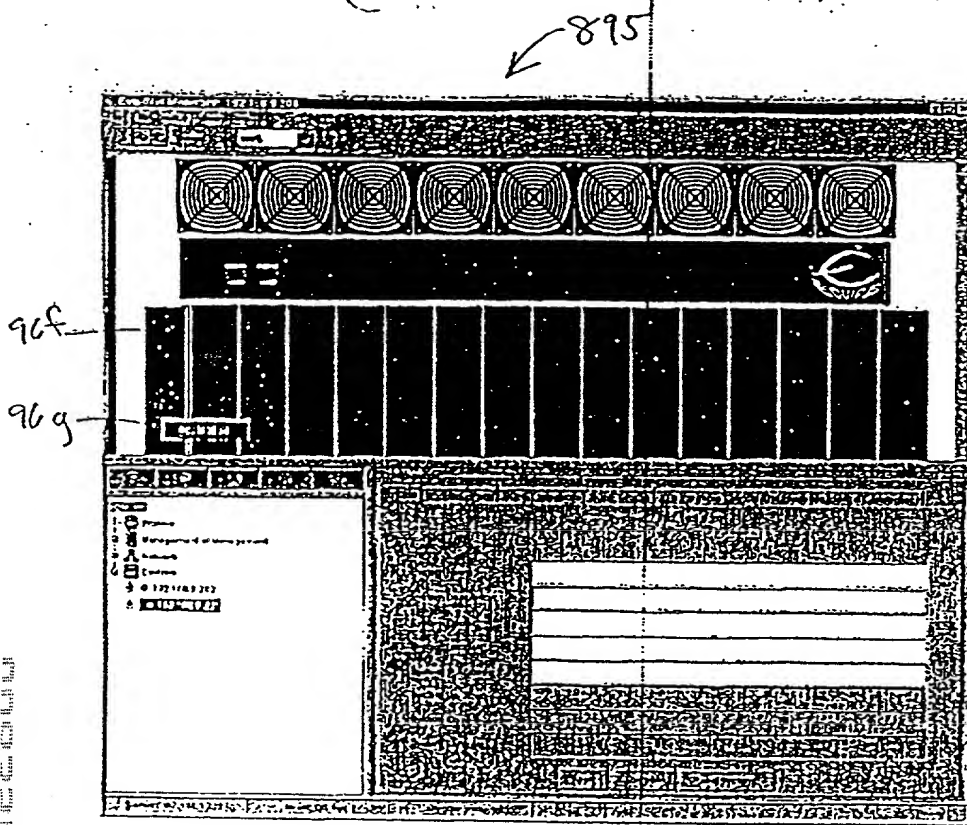


Fig. 6i

Fig. 6j

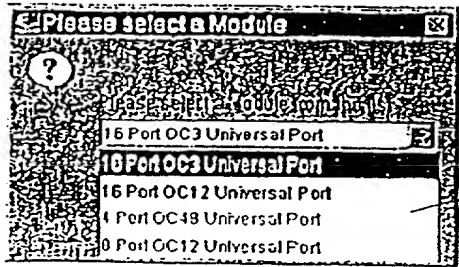
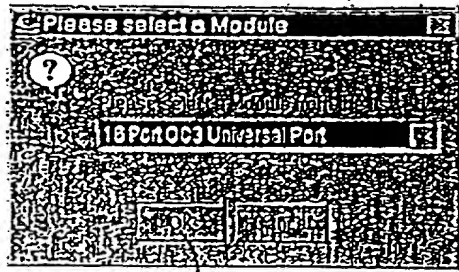


Fig. 6k

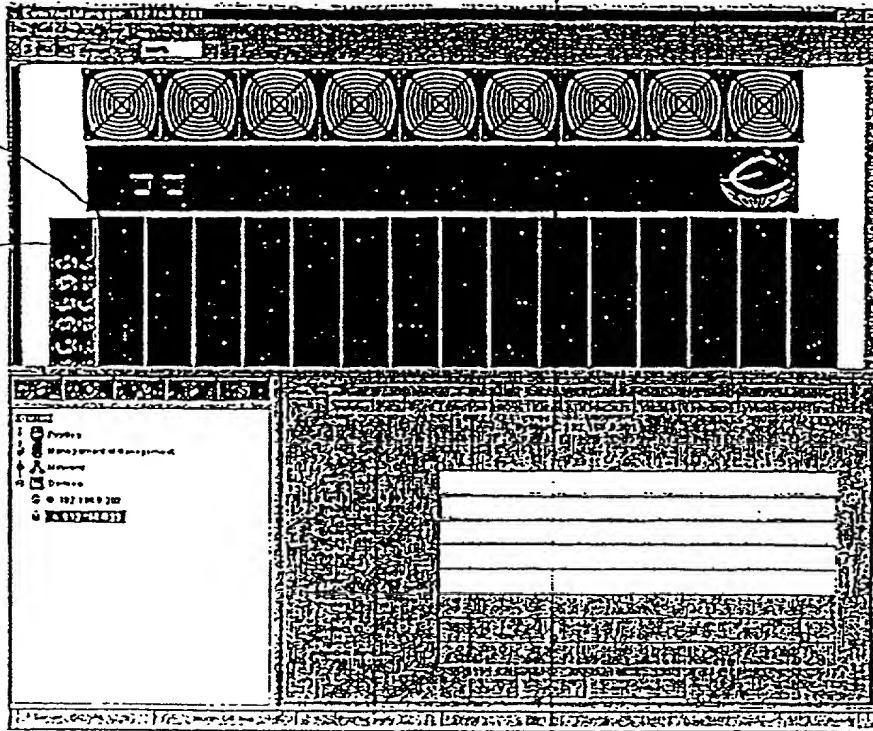


Fig. 61

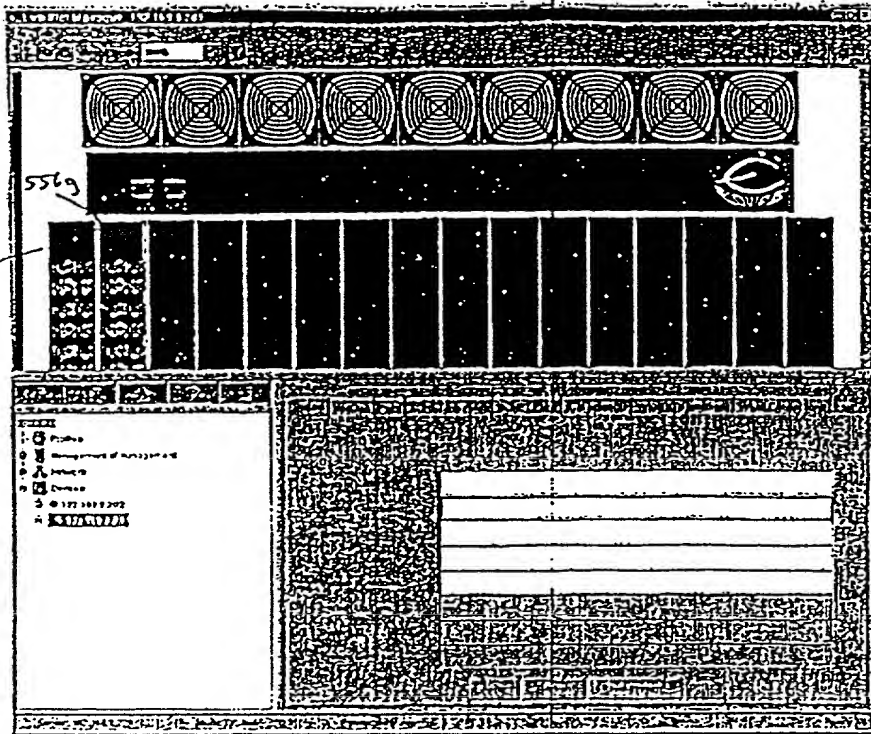


Fig. 6m

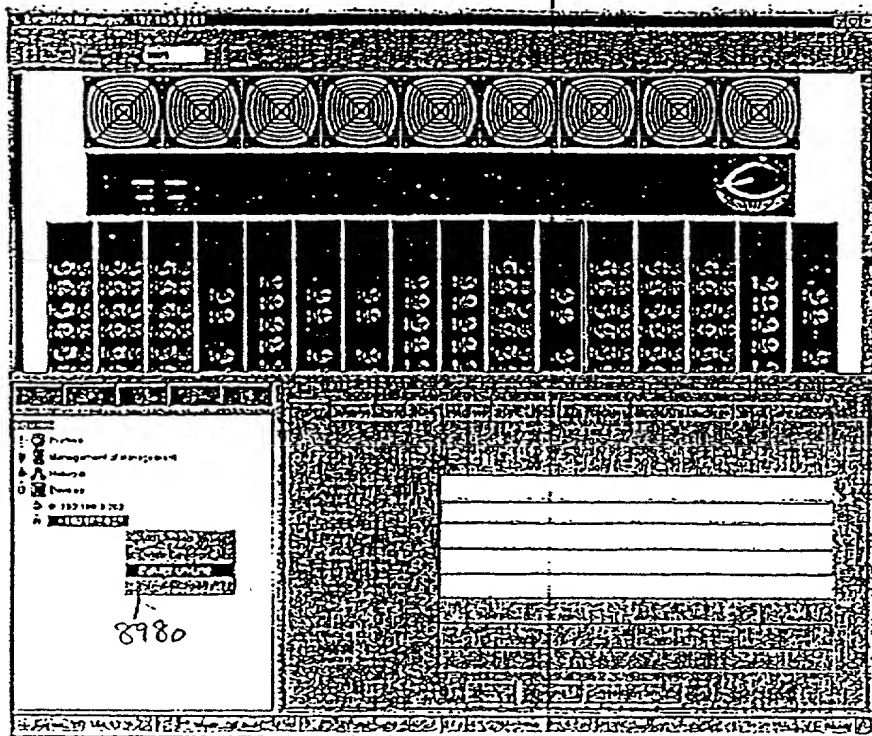


Fig. 6n

895

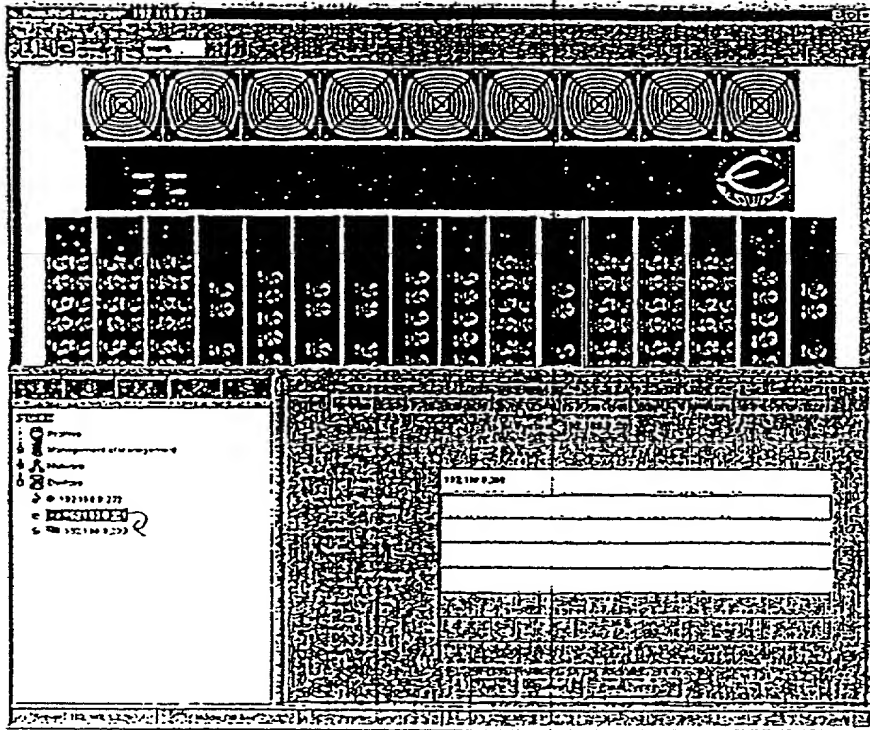


Fig. 60

895

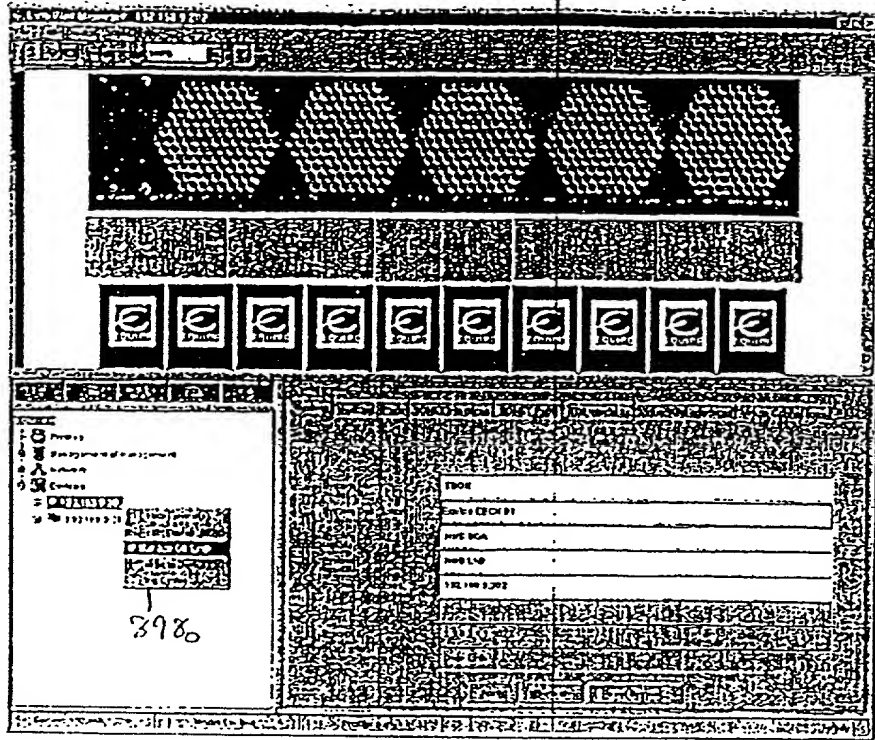
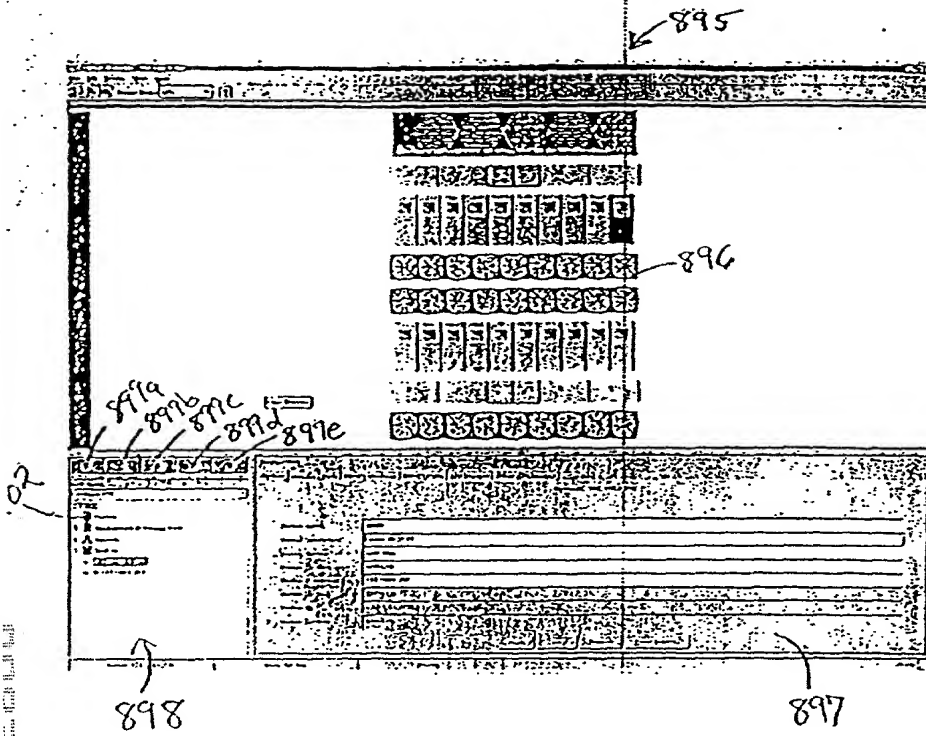


Fig. 6p



EventNet Manager: Fault - Event Summary			
System: 9240765360			
System	Event	Event Number	Description
1.1.55.6	Fan OverTemp	44	"Fan marginally functioning"
1.1.55.7	New Board Ins...	75	"New board inserted"
<div>OK</div>			

Fig. 76

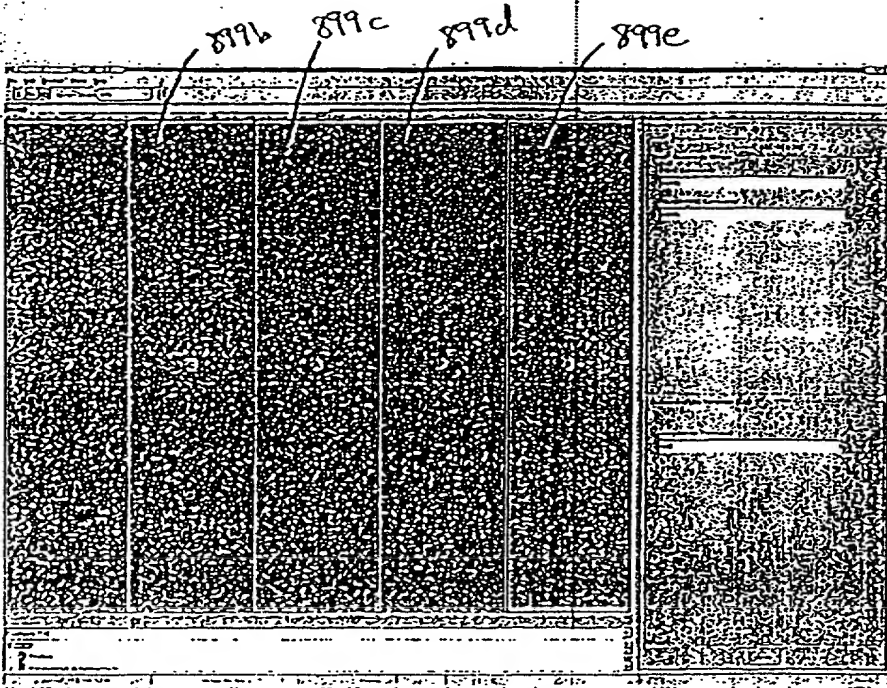


Fig. 7c

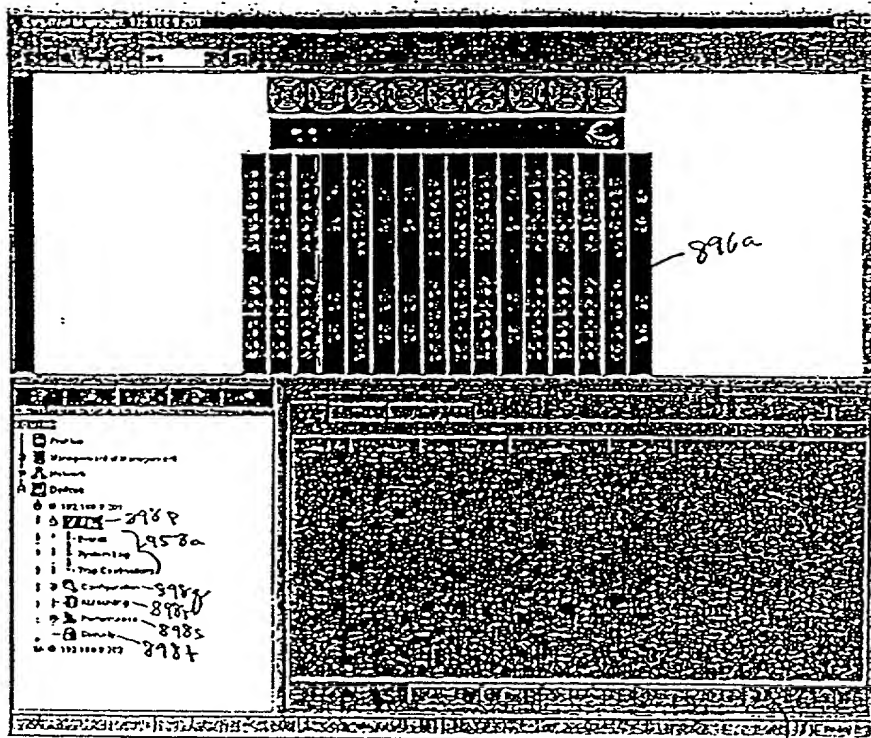
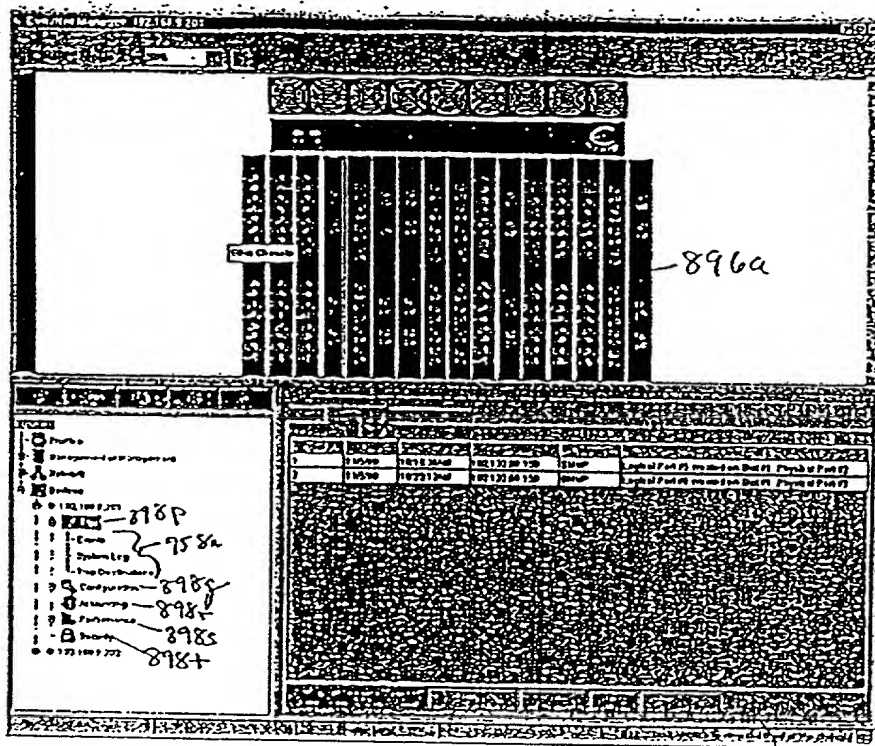
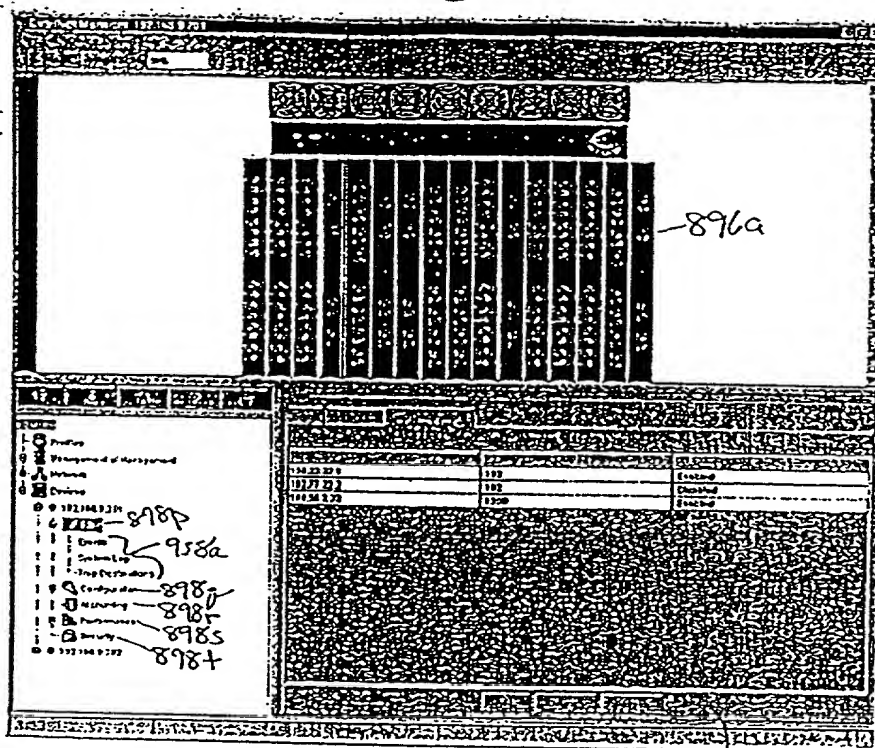


Fig. 7e



F. g. 7f

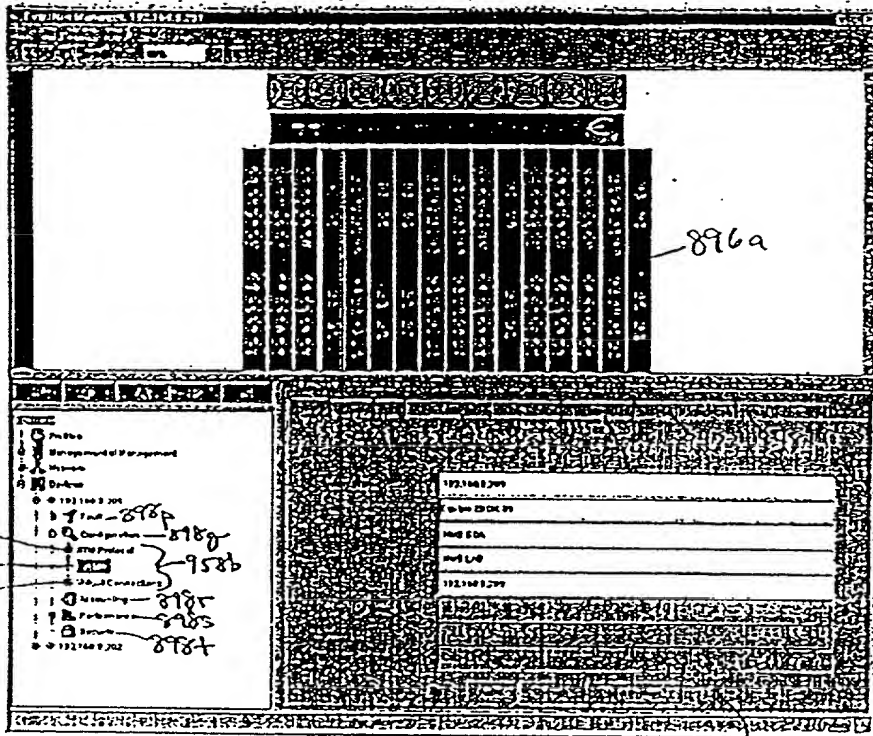
895



897

Fig. 7g

895



158c

58d

58e

100 - 898p
100 - 898g
100 - 898b
100 - 898f
100 - 898s
100 - 898t

897

Fig. 7h

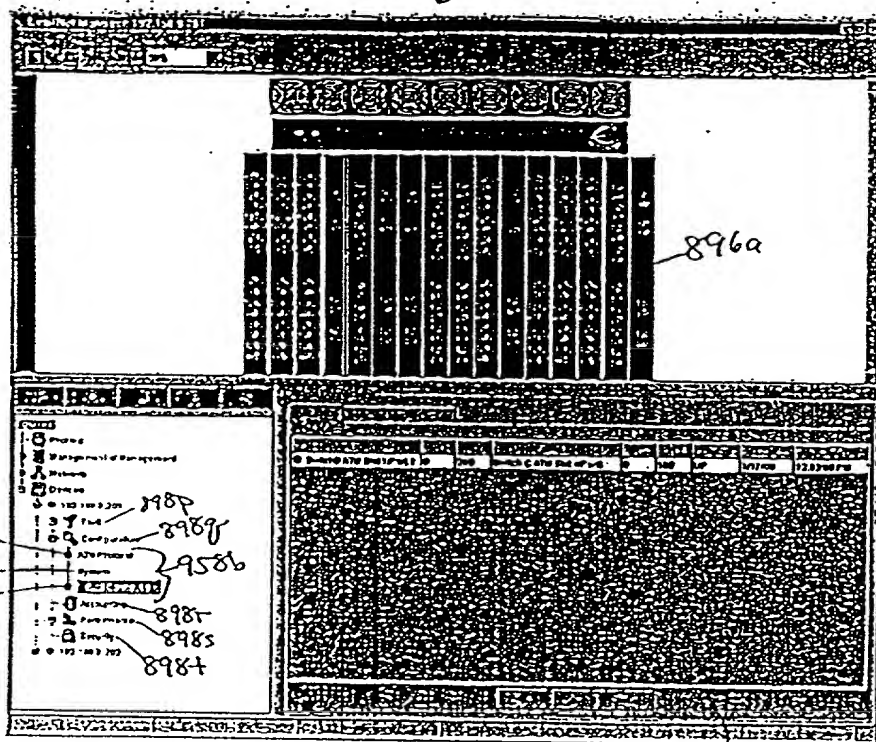


Fig. 7j

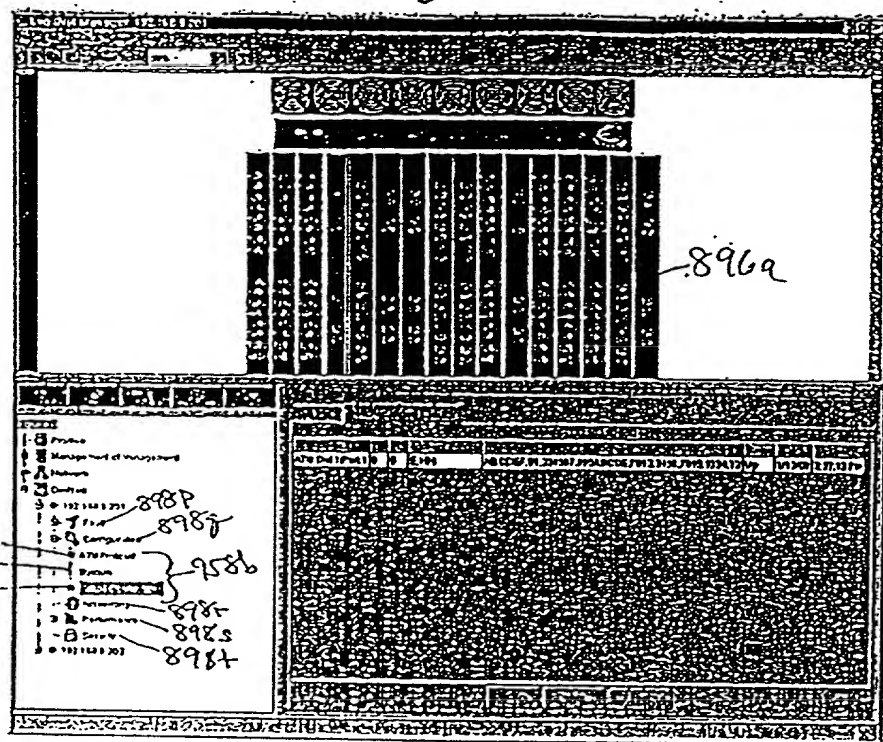


Fig. 7K

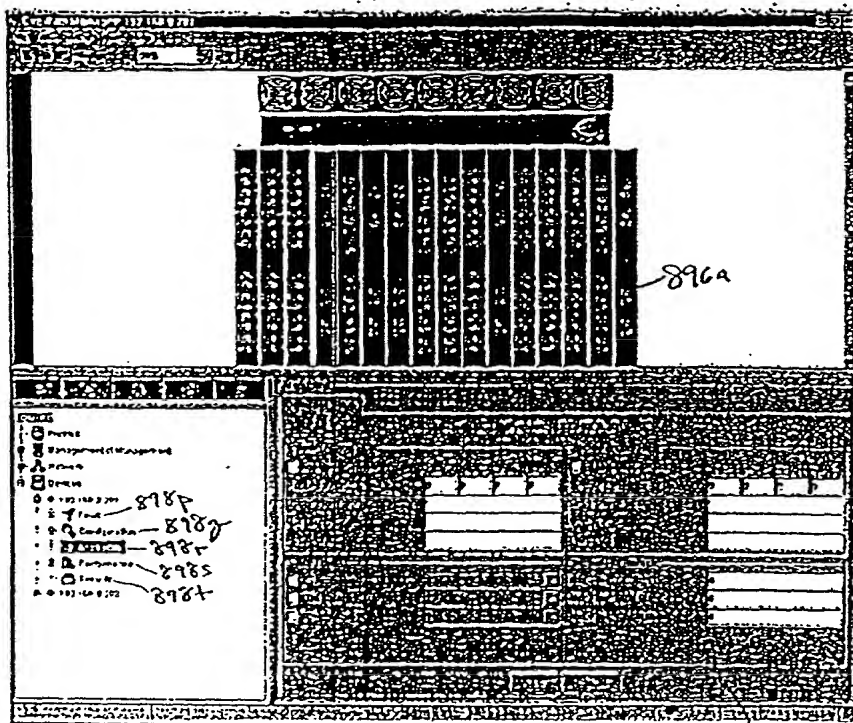


Fig. 7L

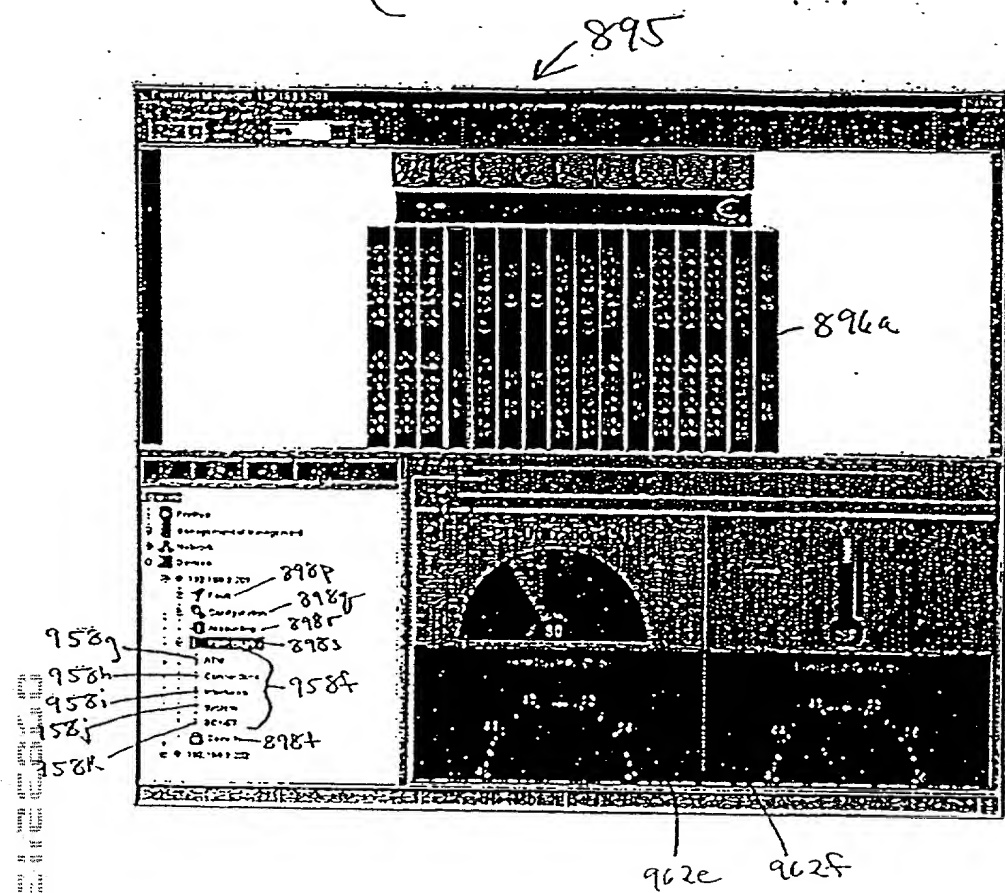
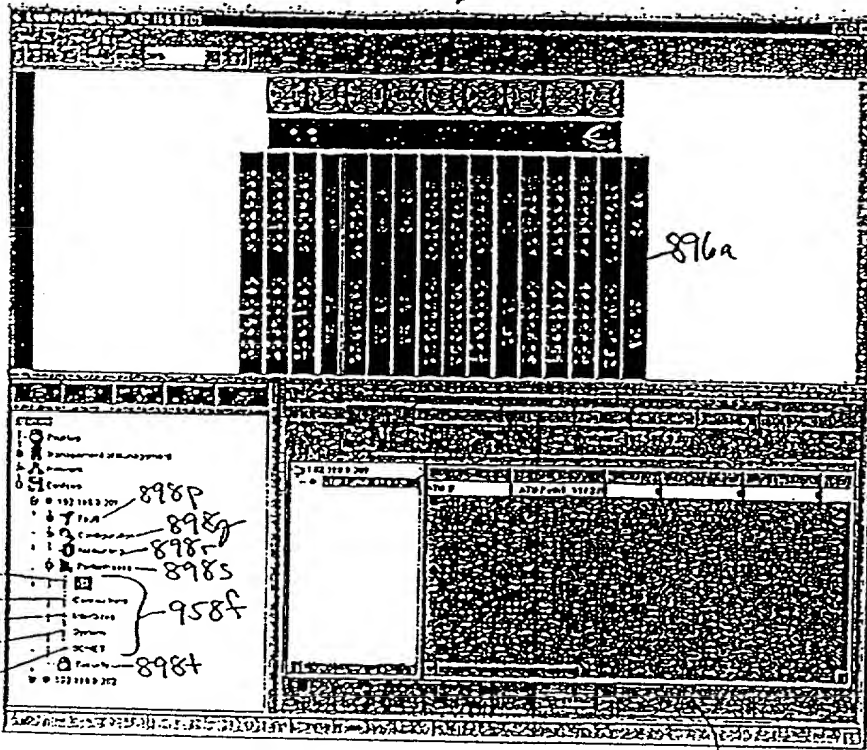


Fig. 7m

895



896a

897

Fig. 7p

895

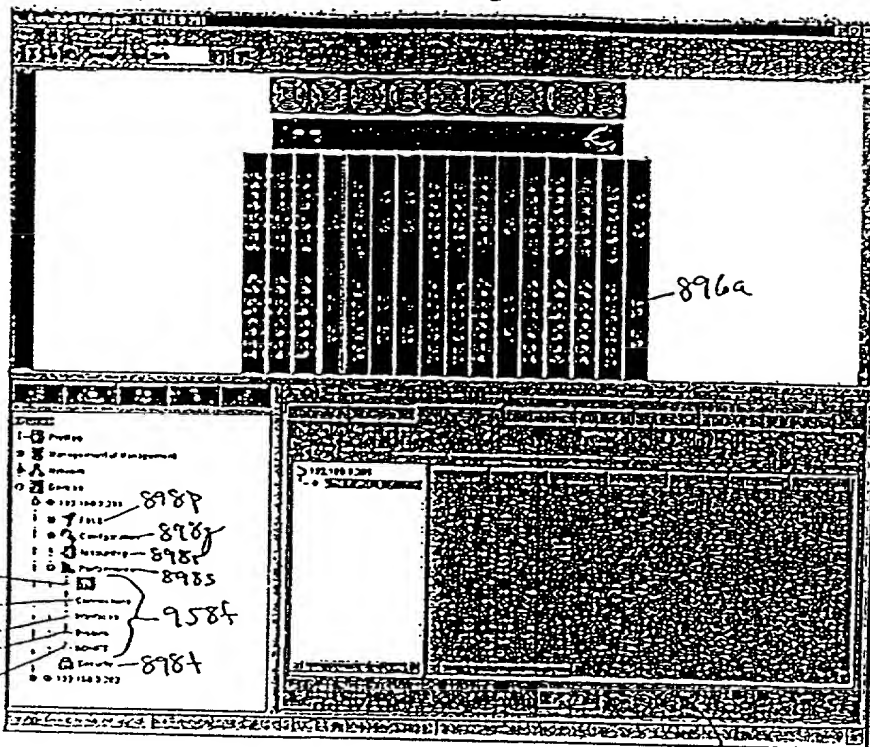


Fig. 7g

895

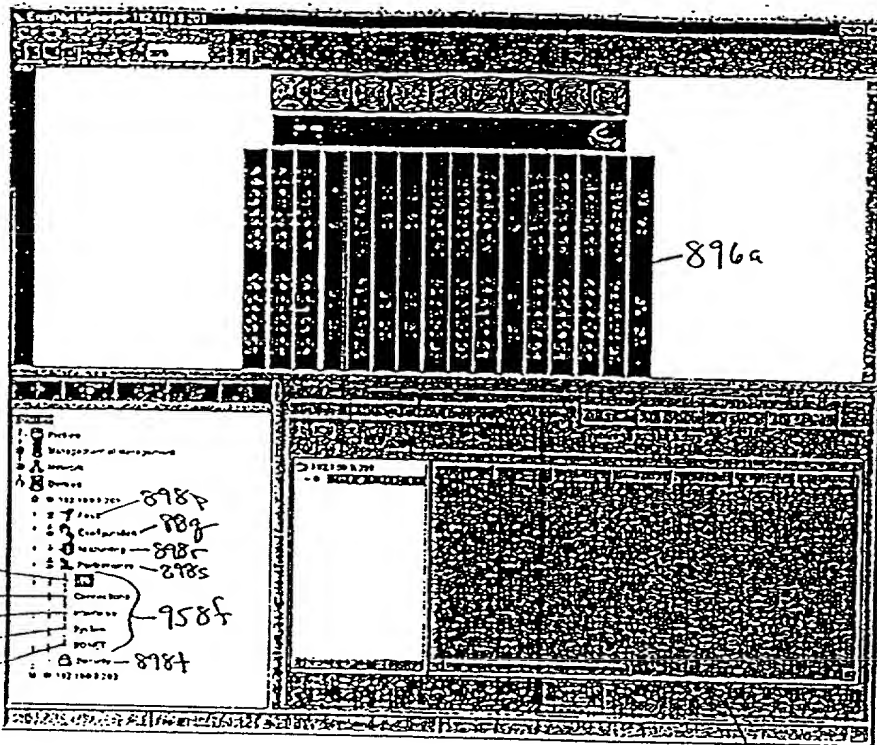
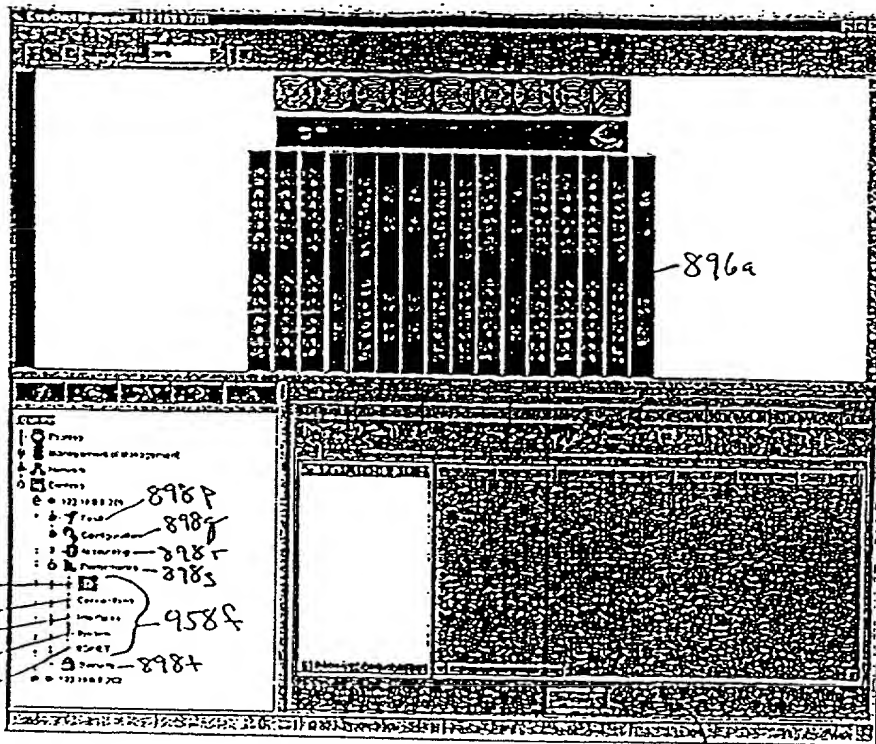


Fig. 7

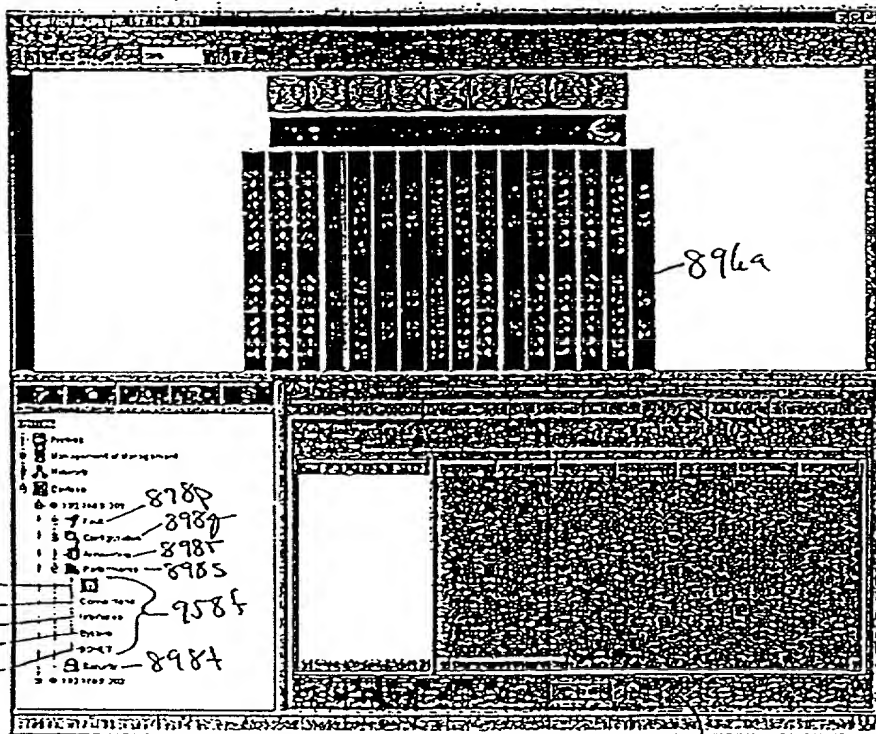
895



897

Fig. 7s

895



897

Fig. 7+

895

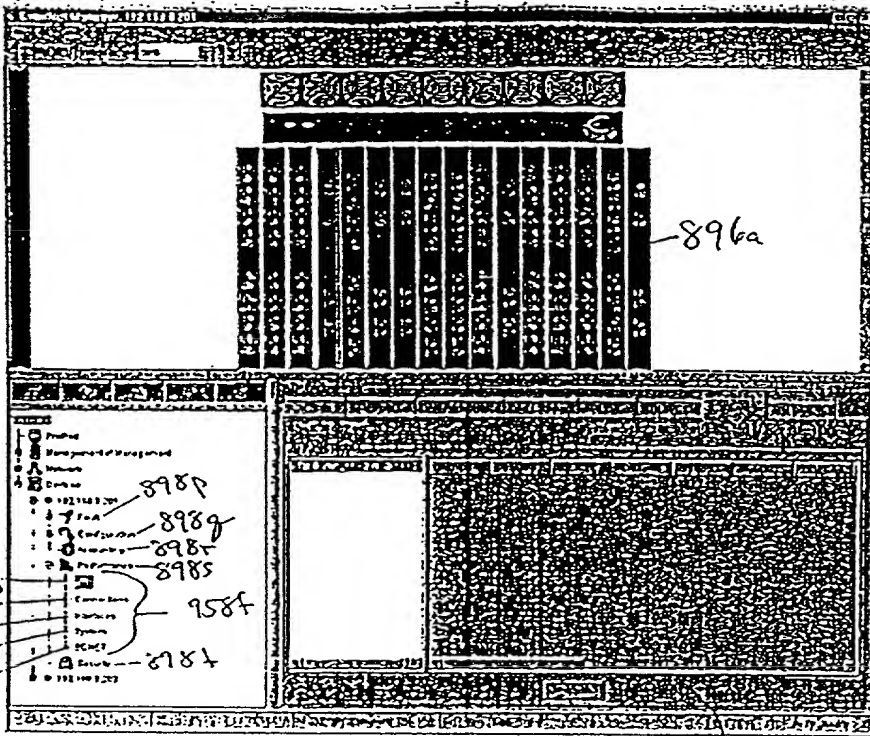


Fig. 7u

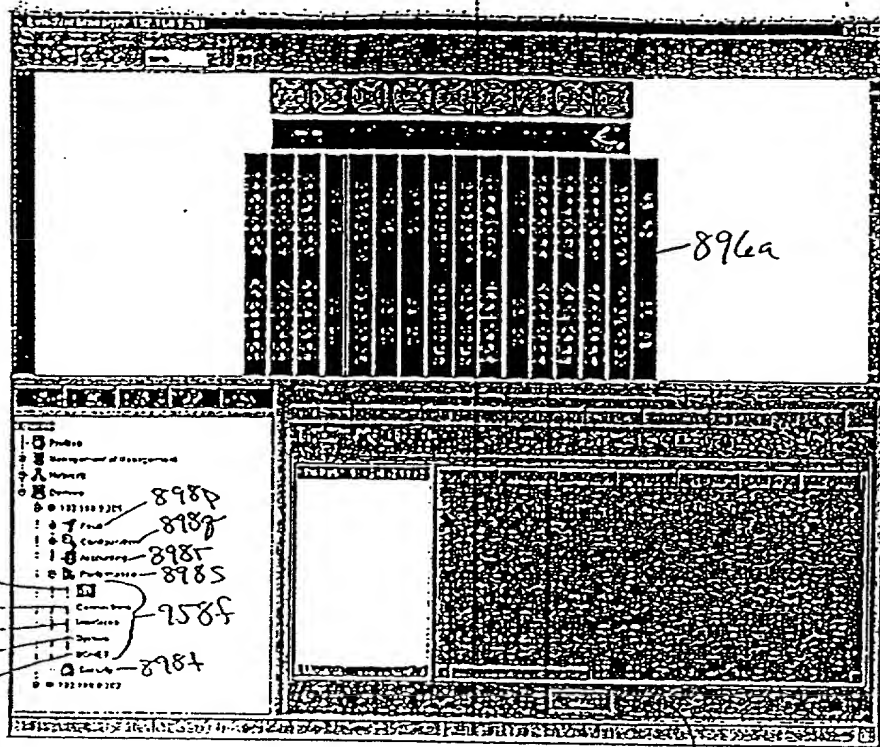


Fig. 7v

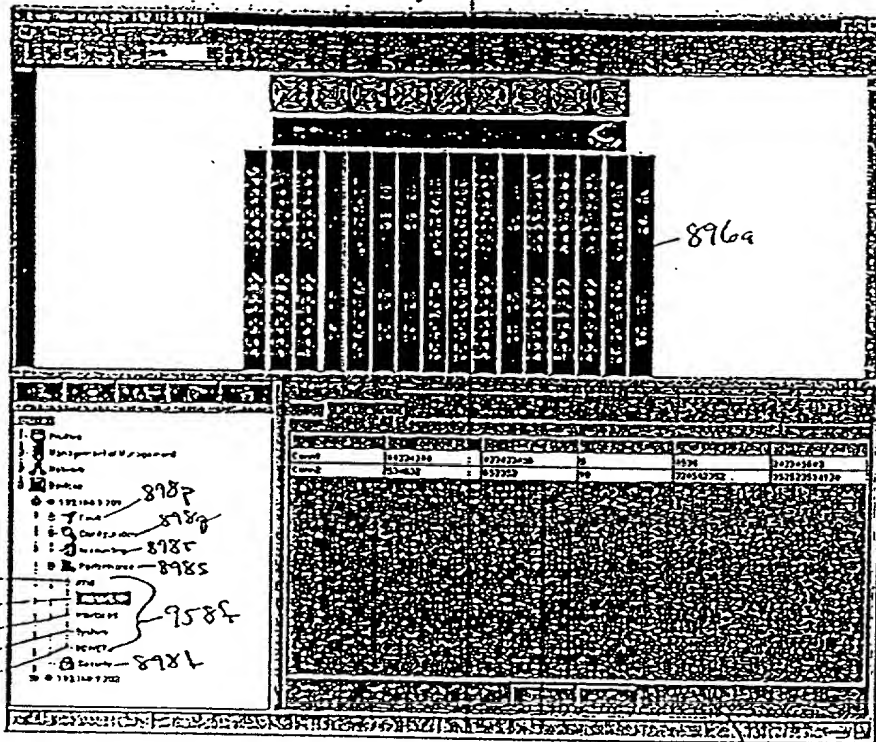
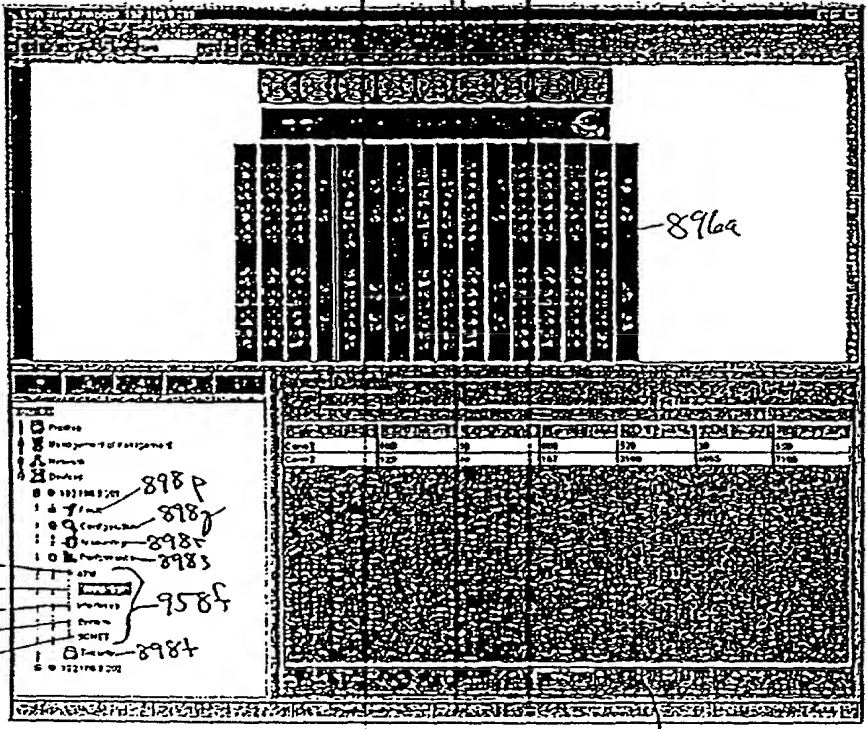


Fig. 7w

895



897

Fig. 7x

895

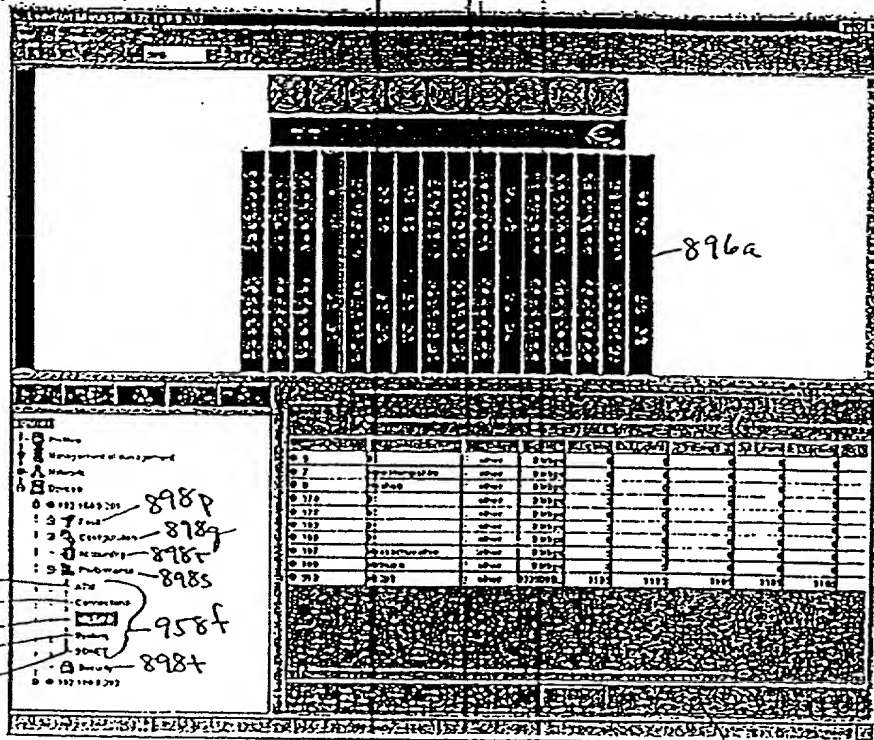


Fig. 7y

895

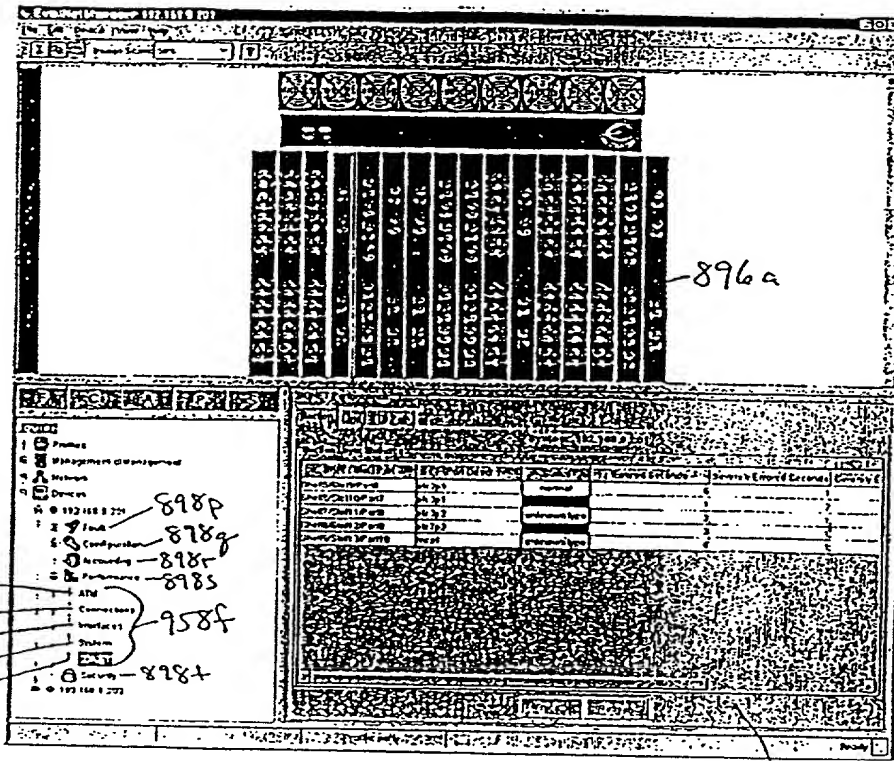


Fig. 8a

895

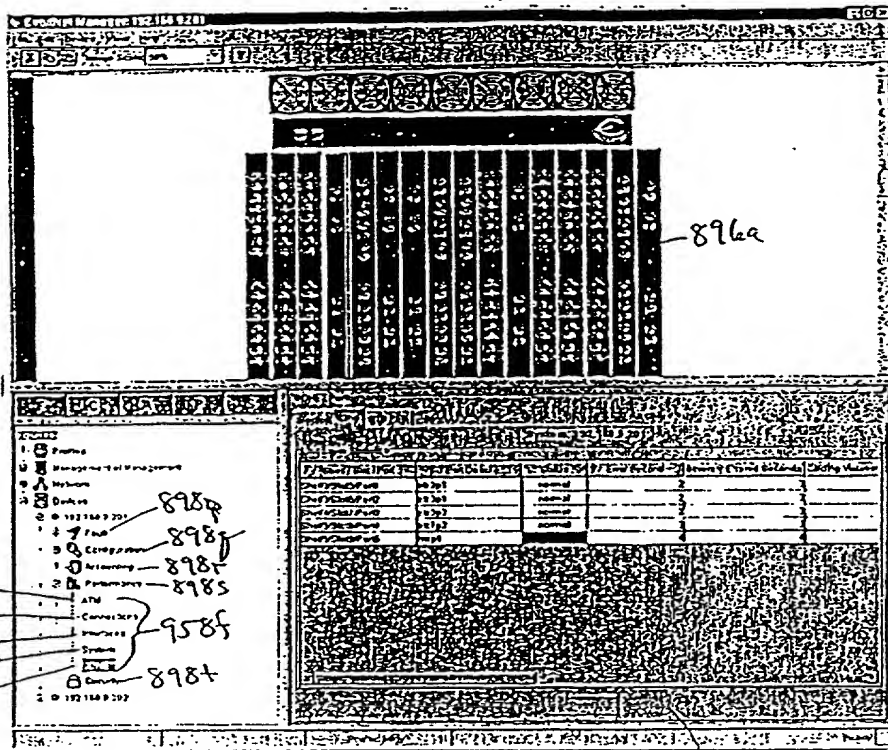


Fig. 8b

895

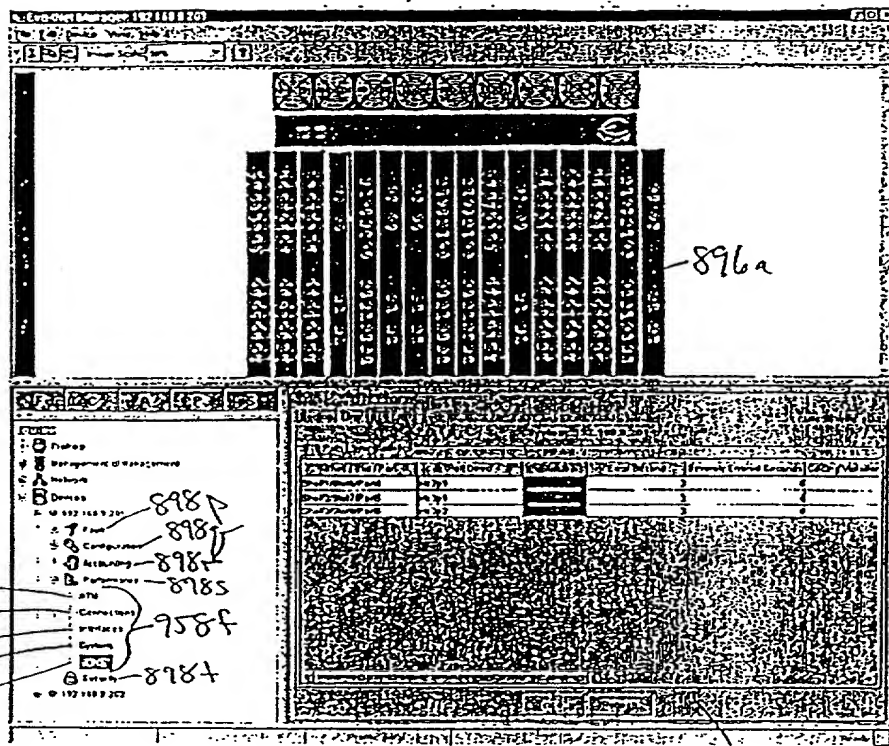


Fig. 8c

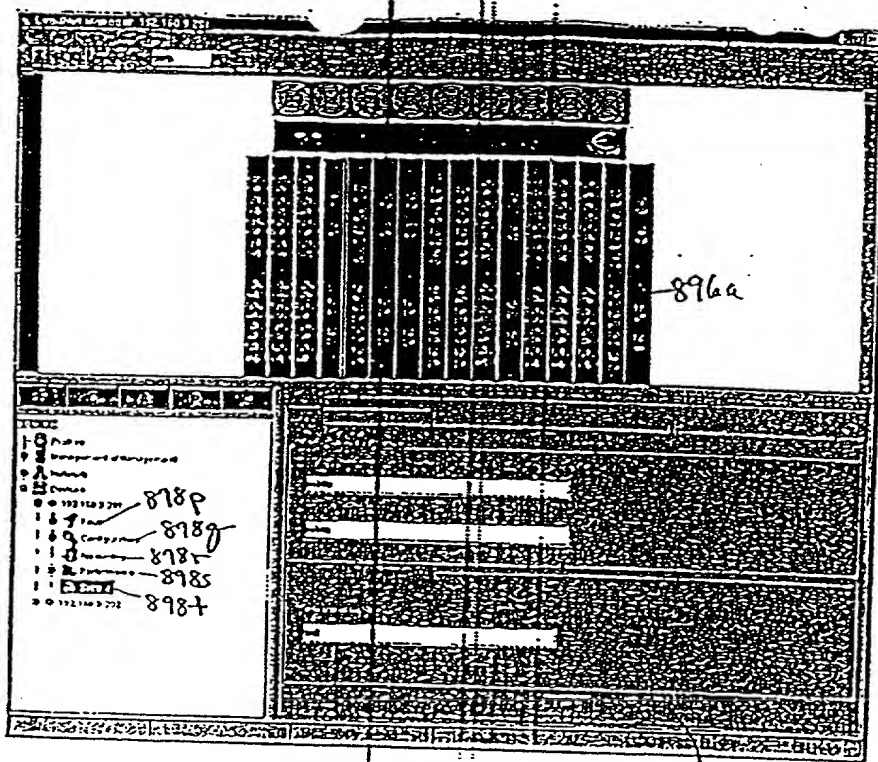


Fig 8d

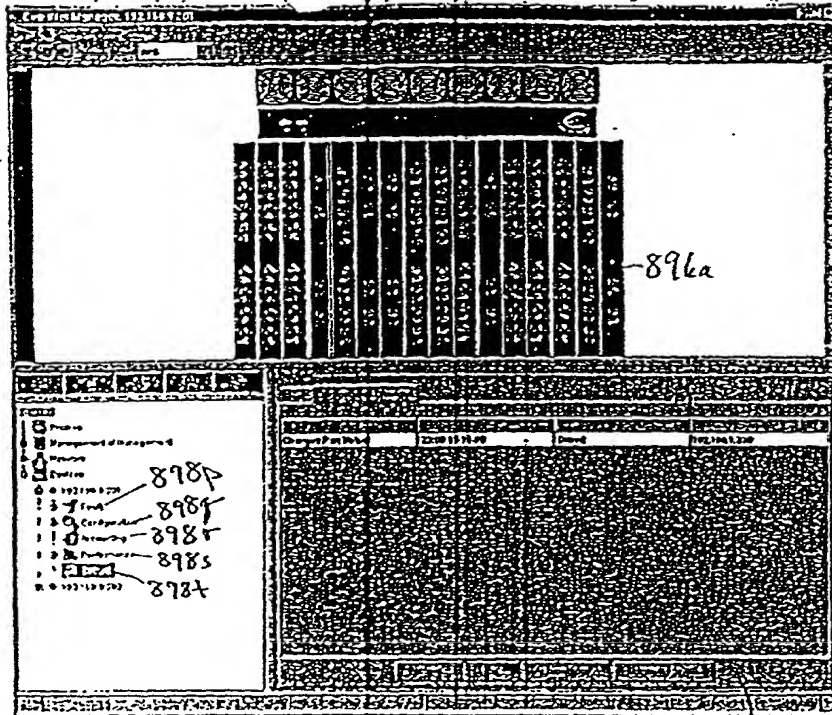


Fig. 8e

FIG. 9C is a schematic diagram of a system for processing data. The system includes a data source 963a, a data processor 963b, and a data storage device 963c. The data source 963a is connected to the data processor 963b, which is connected to the data storage device 963c. The data processor 963b is also connected to a data output device 963d. The data source 963a is a computer system, and the data processor 963b is a microprocessor. The data storage device 963c is a hard disk drive, and the data output device 963d is a printer.

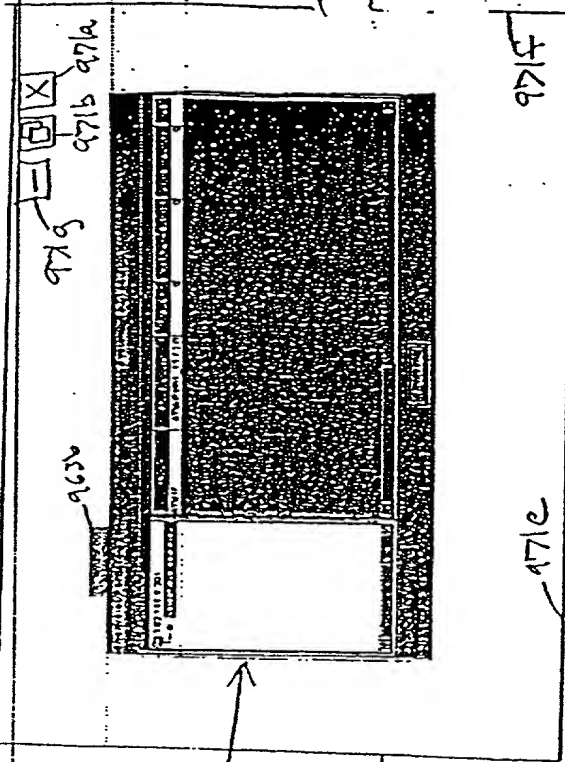
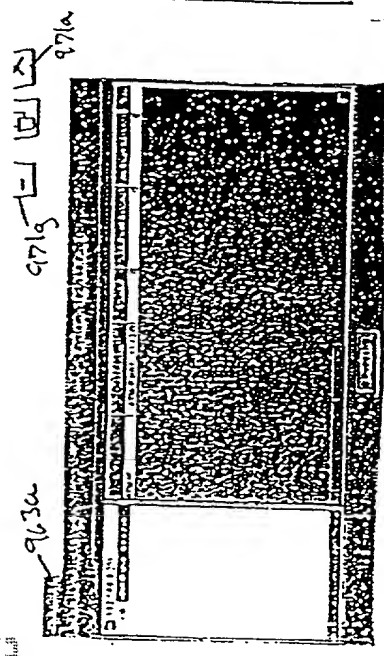
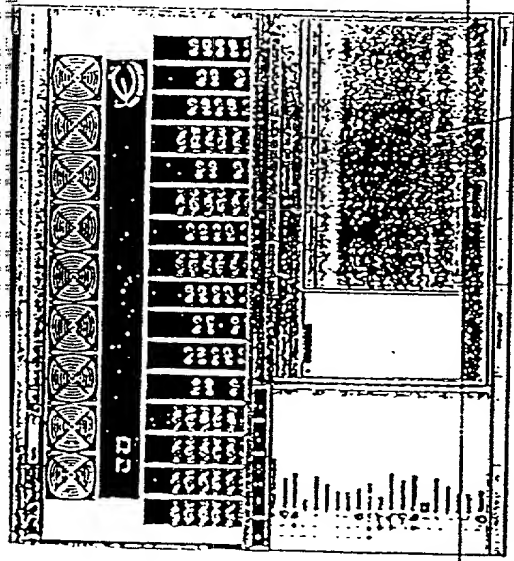


Fig. 9c

FIG. 9a

FIG. 9b

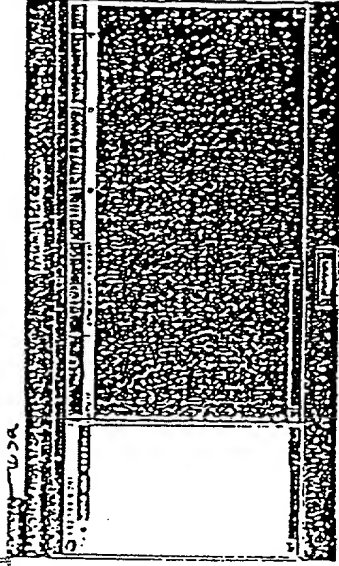


FIG. 9c

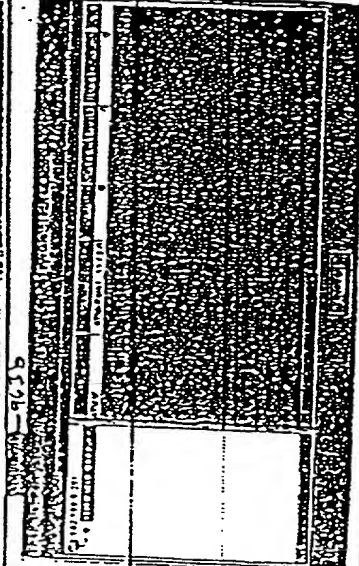


FIG. 9d

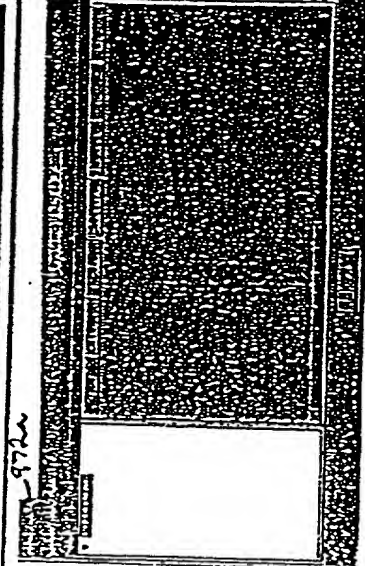


Fig. 9d

96a

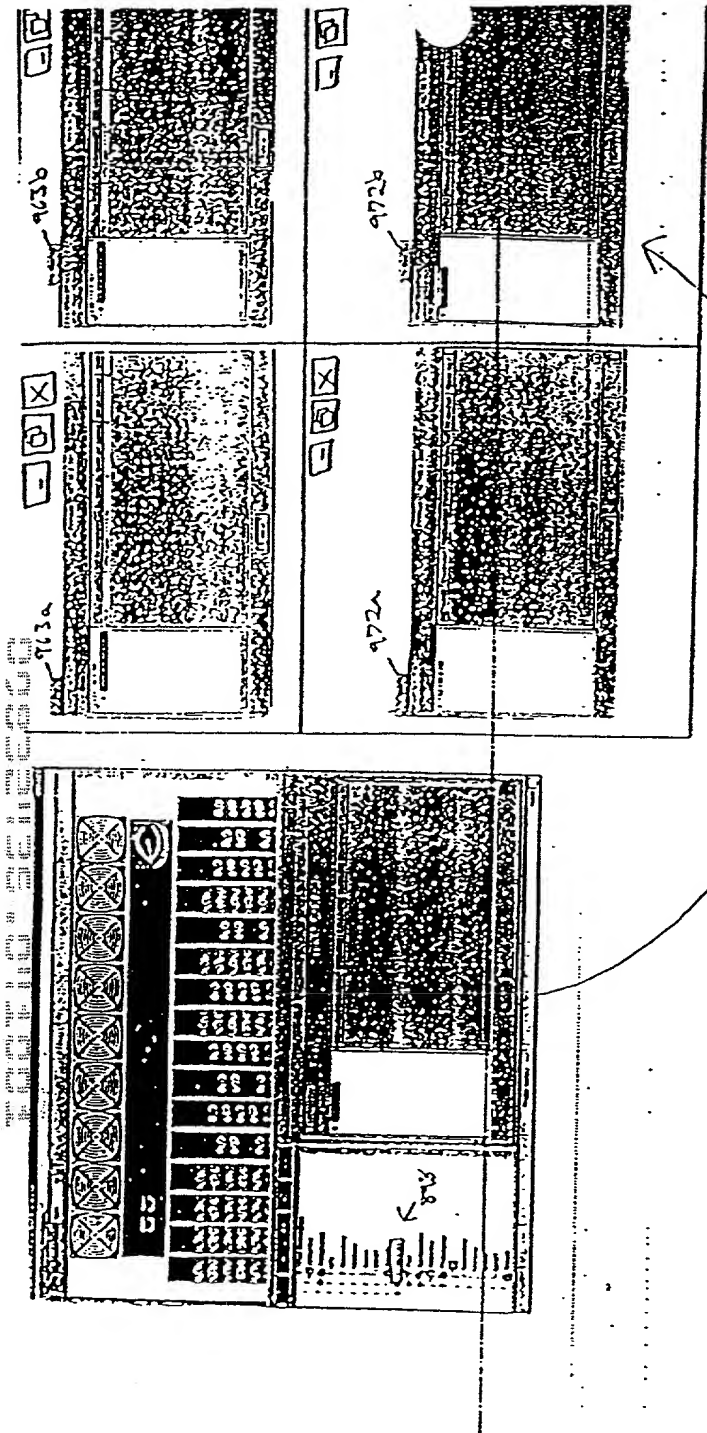


Fig. 9e.

969d

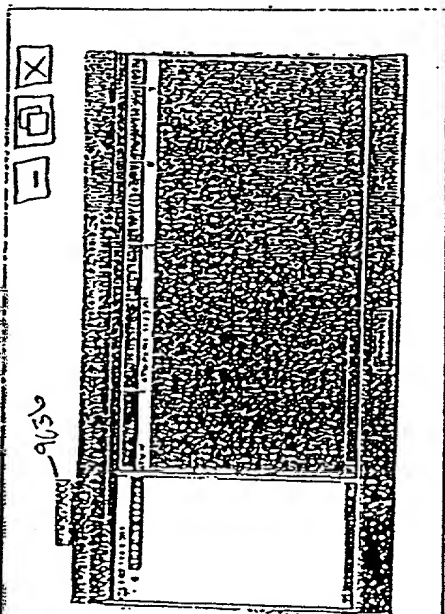
Figure 9.94 shows a plan view of a building with a central corridor and four rooms. The rooms are labeled 970a and 970b. The drawing is a black and white line drawing with stippled shading in the rooms.

970b

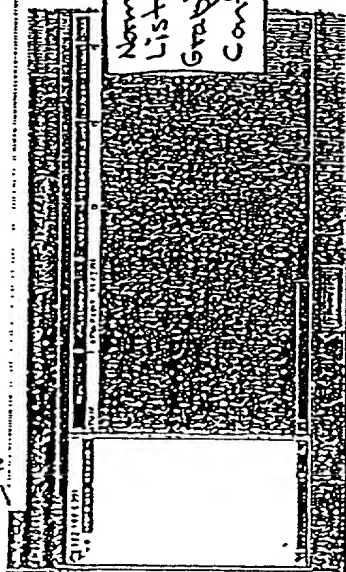
970a

Fig. 9.94

Figure 9g is a schematic diagram of a system for controlling a vehicle. The system includes a vehicle 9630, a control unit 9632, and a display unit 9634. The control unit 9632 is connected to the vehicle 9630 and the display unit 9634. The display unit 9634 displays information to the driver of the vehicle 9630.



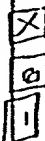
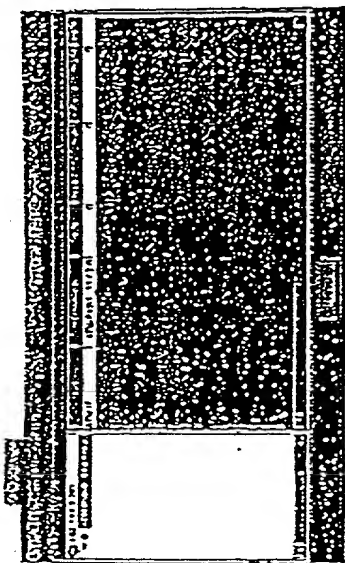
9632



9634
Normal
List
Graph
Config
973a
973b
973c
973d

Fig. 9g

upper right corner of the page is a small square area containing the letters "H" and "L" in a 2x2 grid.

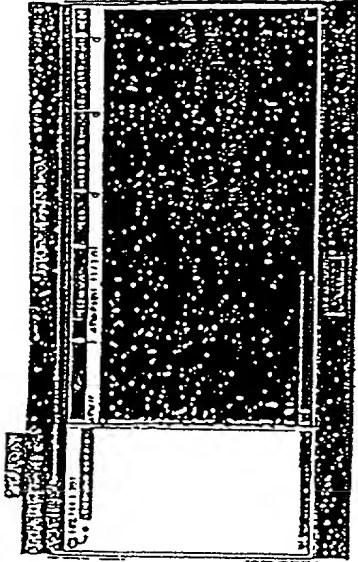


System: 192.168.9.201
Type: ATM IF
Description: ATM-Path 1_11/21
Cells:
Cells Per Second:
Bits Per Second:
:

974a

Fr 9/1h

Figure 9: A diagram showing a network topology. It includes a central node labeled 'ATM Path 1_11/2/1' connected to three other nodes labeled 'ATM Path 2_11/2/1', 'ATM Path 3_11/2/1', and 'ATM Path 4_11/2/1'. The connections are represented by lines with arrows indicating the direction of flow.



Cells Per Second

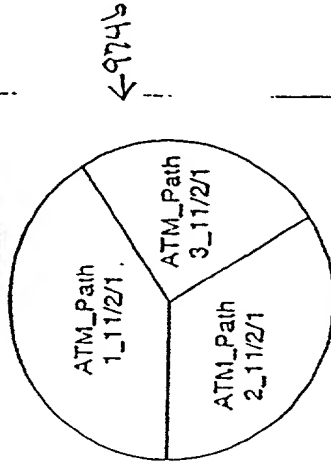


Fig. 9i

Figure 9 is a block diagram of a system for processing data. The system includes a data source, a data processor, and a data output device. The data source provides data to the data processor, which then outputs the data to the data output device.

FIG. 9

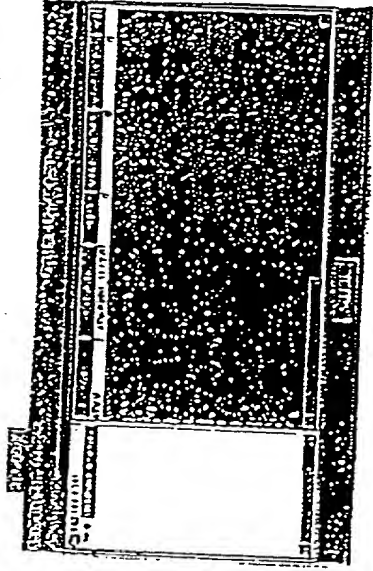


FIG. 9

Fig. 9j

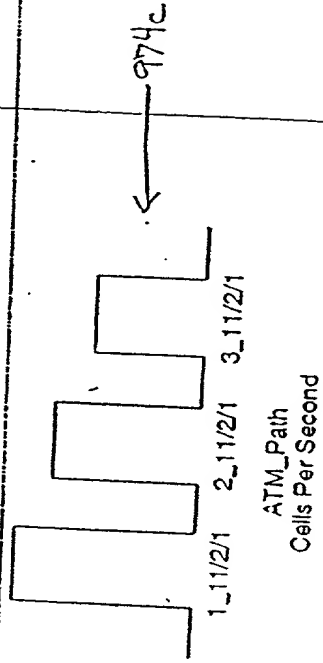
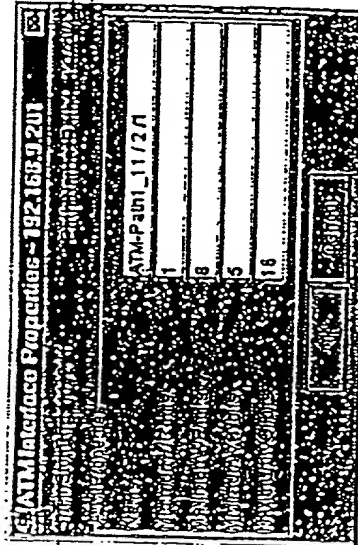
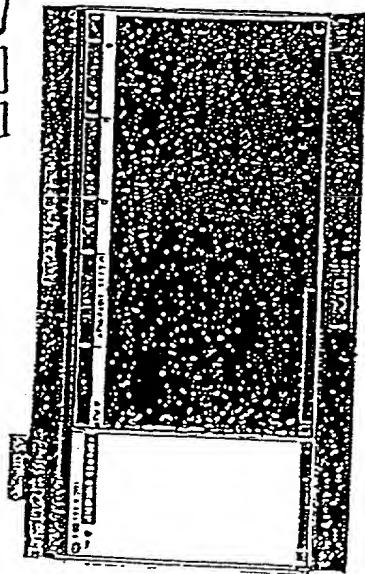


Figure 9K shows the ATM interface properties for the ATM interface.



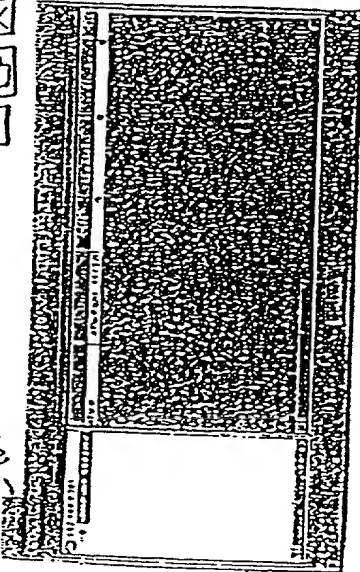
9748

Fig. 9K

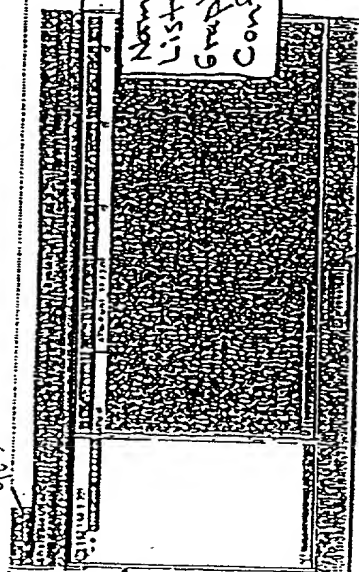
FIG. 91



963c



963a

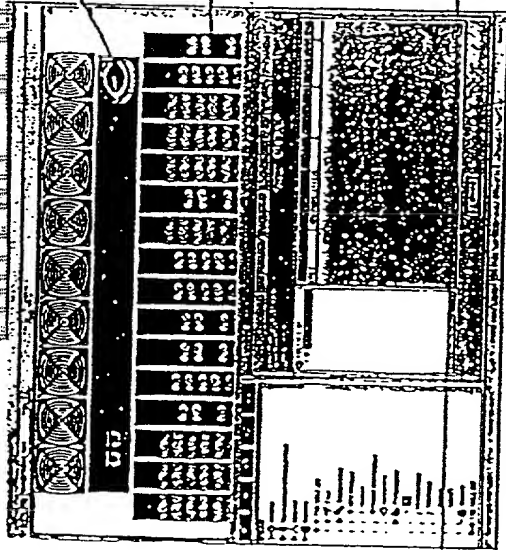


Normal
List
Graph
Config

969c

Fig. 91

FIG. 9m is a schematic diagram of a system for processing data in accordance with the present invention. The system includes a data source 896a, a data processor 897, and a data output device 898. The data source 896a is connected to the data processor 897, which is connected to the data output device 898. The data source 896a is a memory device that stores data in a structured format. The data processor 897 is a microprocessor that processes the data stored in the data source 896a. The data output device 898 is a display device that displays the processed data.



896a

897

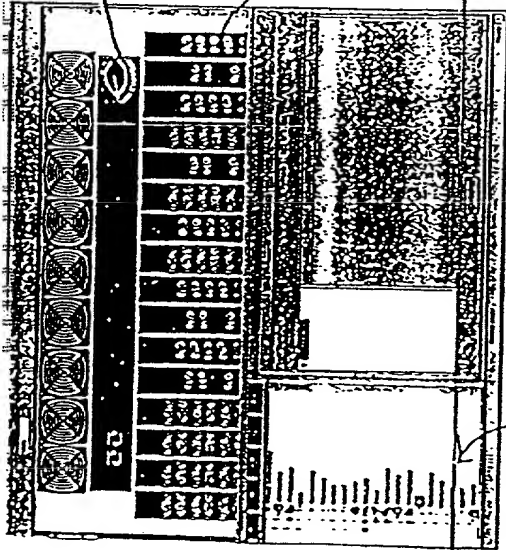
898

System: 192.168.9.201

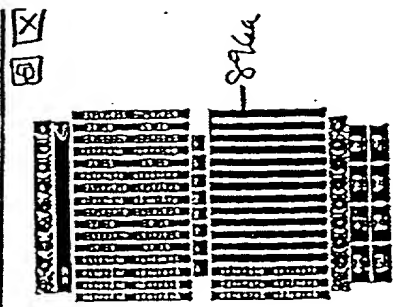
896a

Fig. 9m

Hand-drawn diagram of a system architecture, showing a central processing unit (CPU) connected to a memory unit (RAM) and a storage unit (HDD). The diagram is labeled with handwritten text and numbers.



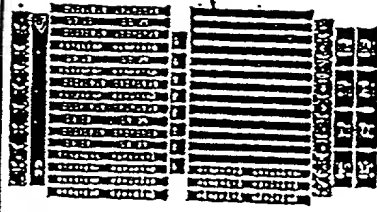
System:
192.168.9.201



896a



System:
192.168.9.202



975

969

Fig. 9n

898

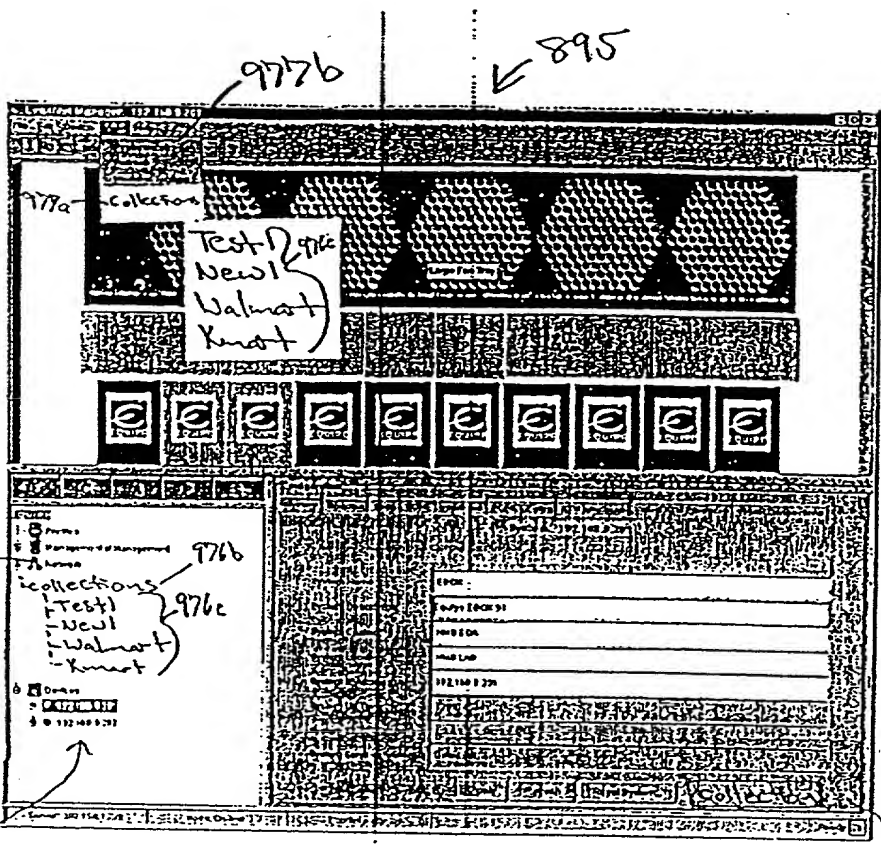
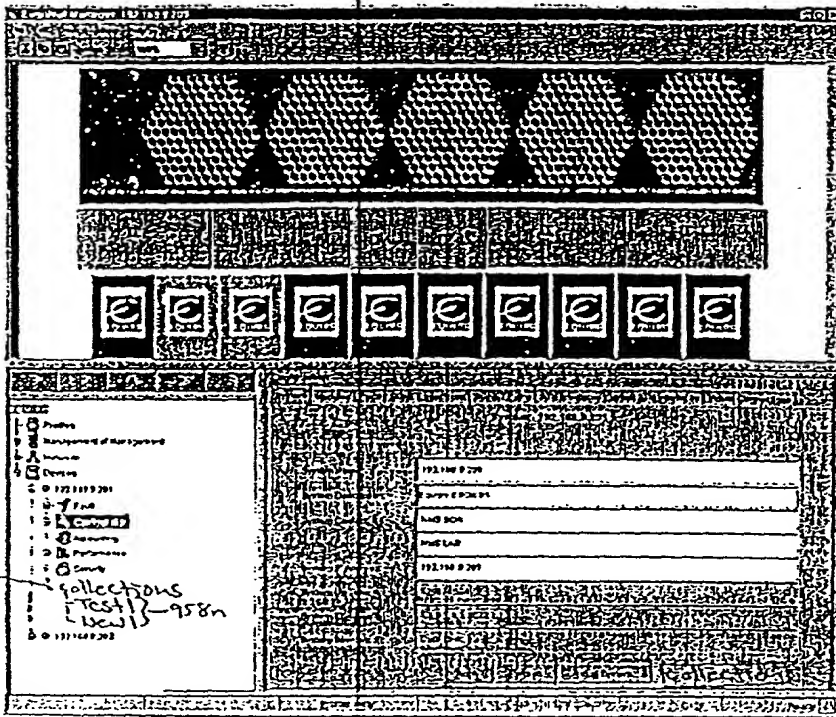


Fig. 10a

895



958m

collections
test 12-958m
new 13-958m

897

Fig. 106

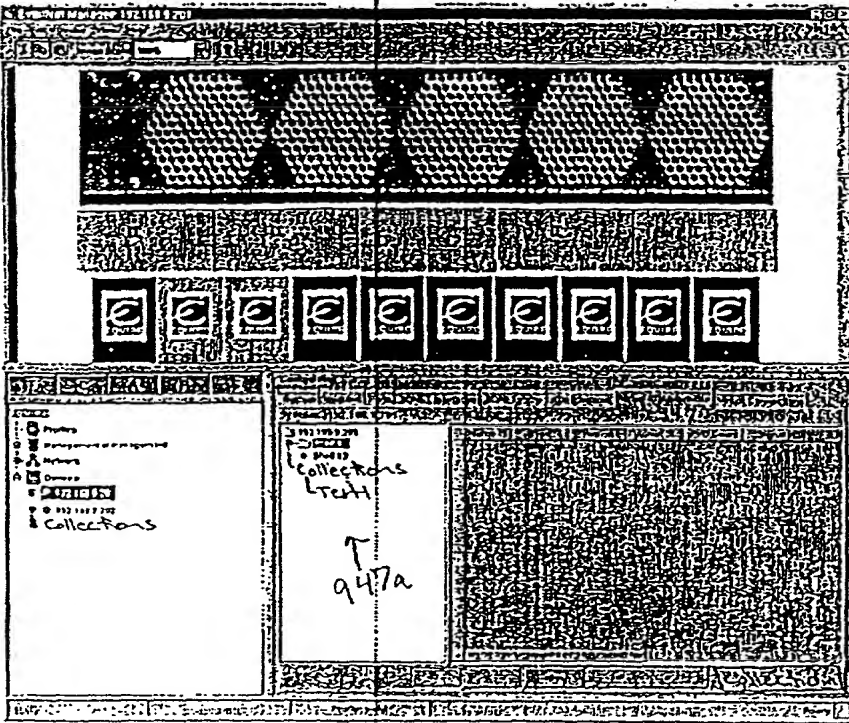
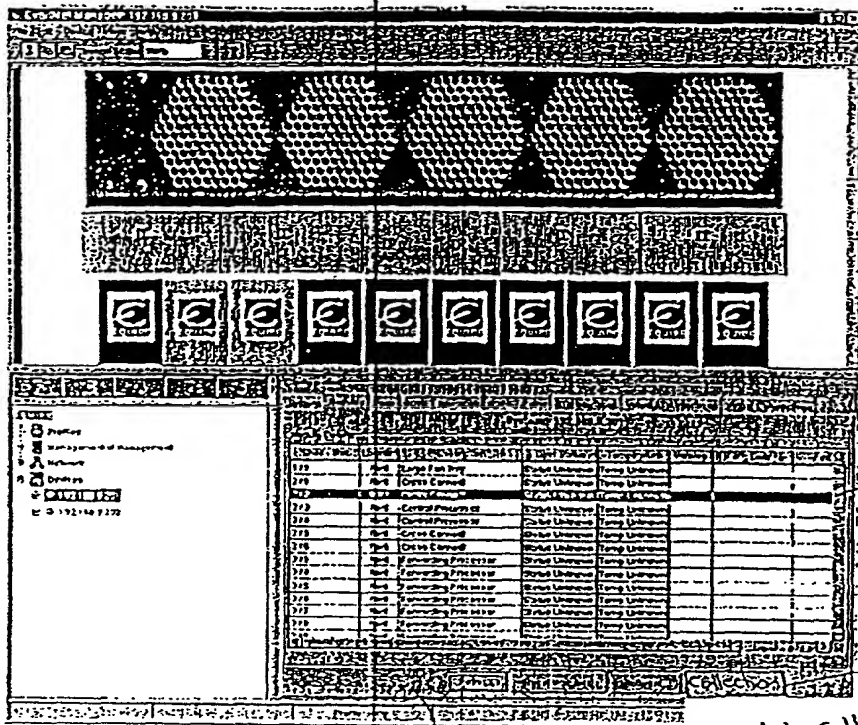


Fig. 10c



979d

Collection Name:

OK

Fig. 10e

979e

Existing Collections:

Test1

New1

Walmart

Xmart

OK

Fig. 10f

979f

979g

895

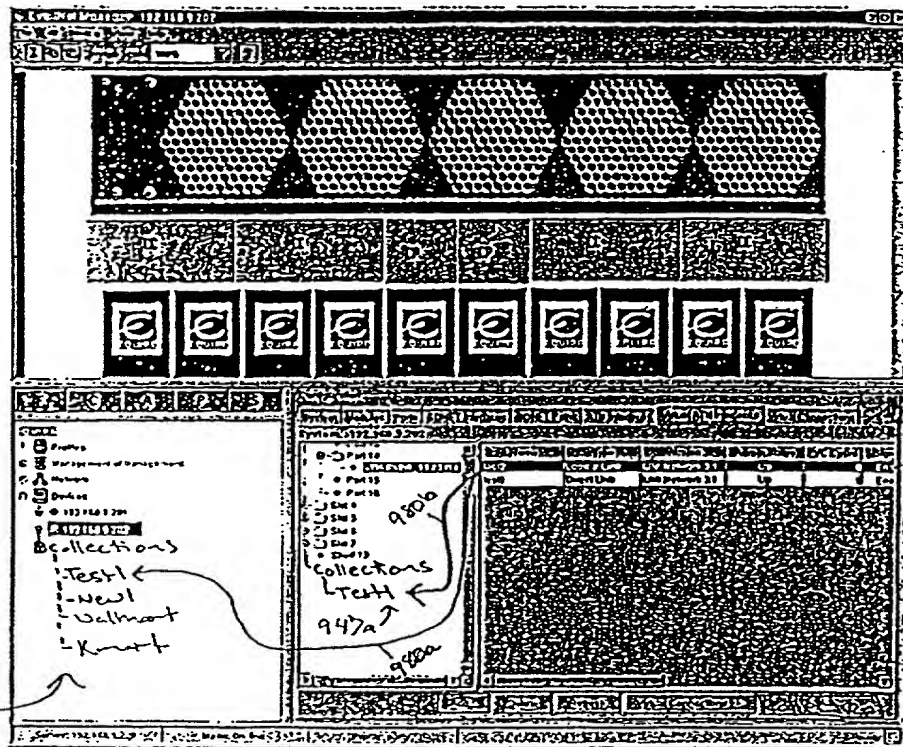
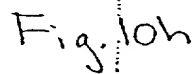


Fig. 10g



904

Name	Description	Category	Value	Unit	Value	Unit
Joe Phakehouse	Admin	15	197.148.1.32	192.168.1.37		
Joe Phakehouse	Admin	15	197.148.1.32	192.168.1.37		

905

906

Fig. 11a

Sent By: Equipe Communications;

781 795 2031;

Oct-24

8:20AM;

907

General

Username: Kevin

Description: Kevin Snow user account

Group Name: Equipe

Group Level Access:

Password: *****

Confirm Password: *****

Policies

☒ User Cannot Change Password

☐ Account Disabled

☒ User Can Add Devices

User Session Timeout: 15 Minutes

Servers

Primary Server: 192.168.1.220

Primary Server Port: 6500

Secondary Server: 192.168.1.221

Secondary Server Port: 6503

Devices

Device	READ	WRITE	Relay	Timeout	
192.168.9.202	public	equipe	3	5	
192.168.9.205	public	equipe	3	5	
192.168.9.216	public	equipe	3	5	

108g

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Fig. 11c

General Policies Servers **Devices**

Primary Server: 192.168.1.220

Primary Server Port: 6500

Secondary Server: 192.168.1.205

Secondary Server Port: 6503

OK Cancel

9084

General Policies Servers **Devices**

Device	READ	READWRITE	Relay	Timeout	Trap Port
192.168.9.202	public	equipe	3	5	162
192.168.9.205	public	equipe	3	5	162
192.168.9.216	public	equipe	3	5	5012

OK Cancel

9084

Fig. 11d

Fig. 11e

General Policies Servers Devices

Username: Kevin

Description: Kevin Snow user account

Customer Name: Equipe

Group Level Access: [dropdown]

Password: [masked]

Confirm Password: [masked]

OK Cancel

General Policies Servers Devices

☐ User Cannot Change Password

☐ Account Disabled

☒ User Can Add Devices

User Session Timeout: 15 Minutes

OK Cancel

Fig. 11f

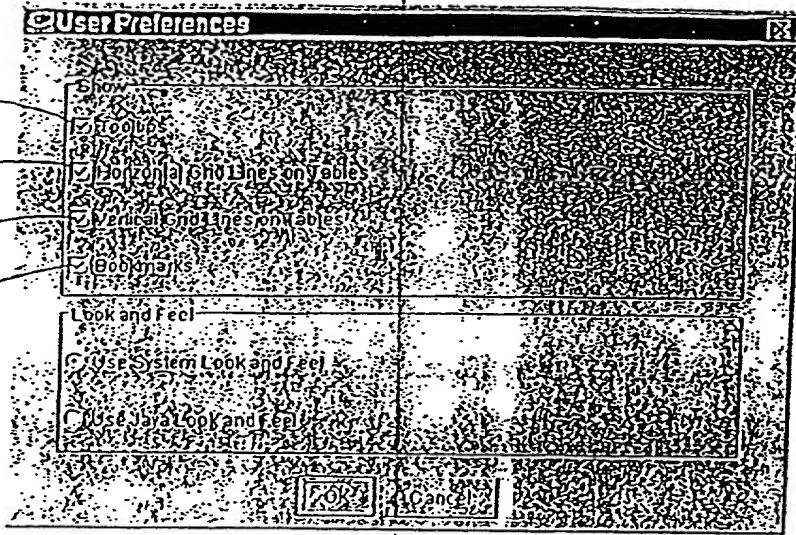


Fig. 11g

907

General

Username: Kevin

Description: Kevin Snow user account

Group Name: Equipe

Group Level Access:

Password:

Confirm Password:

908a

908e

908f

908d

908b

908c

Policies:

☒ User Cannot Change Password

☐ Account Disabled

☒ User Can Add Devices

User Session Timeout: 15 Minutes

108h

108i

108j

908x

Servers:

Primary Server: 192.168.1.220

Primary Server Port: 6500

Secondary Server: 192.168.1.221

Secondary Server Port: 6503

908l

908n

908m

908o

Devices:

Device	READ	READWRITE	Rein	Timeout		Add	Delete
192.168.9.202 public	equipe	3	5				
Group List							
Walmart-East							
Walmart-West							
Kmart 1							
scs3-northeast							

908y

908z

908s

1000a

1000

Fig. 11h

Fig. 11i

1002

12a

EvadNet Manager SONET Path Configuration - 11/8/5

SONET Path Configuration

Path ID: 1

Path Name: STS-3c

Path ID	Path Name	Path Type	Path Length	Path Status
11/8/5	Path1 11/8/5	1	STS-3c	Termin. ATM

1002d

1002

12a

EvadNet Manager SONET Path Configuration - 11/8/5

SONET Path Configuration

Path ID: 1

Path Name: STS-3c

Path ID	Path Name	Path Type	Path Length	Path Status
11/8/5	Path1 11/8/5	1	STS-3c	Termin. ATM
11/8/5	Path2 11/8/5	4	STS-3c	Termin. ATM
11/8/5	Path3 11/8/5	7	STS-3c	Termin. ATM
11/8/5	Path4 11/8/5	10	STS-3c	Termin. ATM

1002d

1002b

1002c

Fig. 11j

Fig. 11K

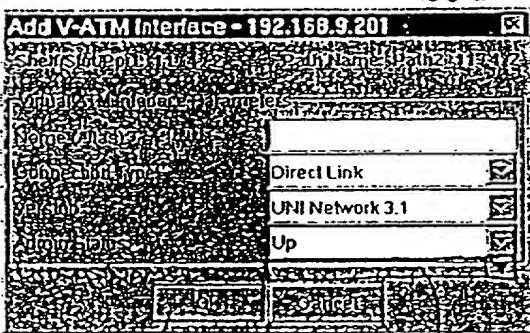
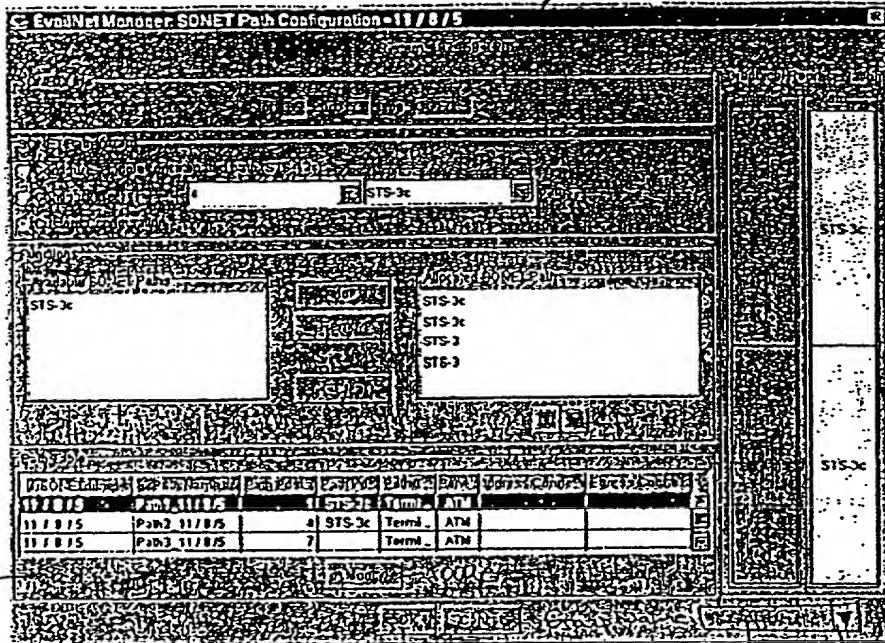


Fig. 11n

Fig. 11L

Managed Resource Group Table

1008

1008a

1008b

1008c

1008d

LID	Managed Device PID	Group Name
1145	1	Walmart-East
⋮	⋮	⋮

Fig. 11M

Managed Resource Table

1007

1007a

1007b

1007c

LID	Resource LID	Manage Resource Group LID
4443	901	1145
⋮	⋮	⋮

1006b

Fig. 110

look

Fig. 11p

User Table

1010

LID	Username	Password	Group Level Access
2012	Dave	Marble	Provisioner
⋮	⋮	⋮	

1010a points to the first row (LID, Username, Password, Group Level Access).

1010b points to the Username column.

1010c points to the Password column.

1010d points to the Group Level Access column.

1010e points to the Provisioner value in the first data row.

Fig. 11q

User Managed Device Table

1012

LID	User LID	Host LID	Retry	Timeout
7892	2012	9046		
⋮	⋮	⋮	⋮	⋮

1012a points to the first row (LID, User LID, Host LID, Retry, Timeout).

1012b points to the User LID column.

1012c points to the Host LID column.

1012d points to the Retry column.

1012e points to the Timeout column.

Fig. 11r

Administration Managed Device Table

1014

LID	Host Address	Port Address	Retry	Timeout	Admin. Password	Prov. Password	Viewer Password
9046	192.168.9.203	1521			team 1	team 2	team 3
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

1014a points to the first row (LID, Host Address, Port Address, Retry, Timeout, Admin. Password, Prov. Password, Viewer Password).

1014b points to the Host Address column.

1014c points to the first data row (9046, 192.168.9.203, 1521, team 1, team 2, team 3).

1014d points to the Prov. Password column.

1014e points to the Port Address column.

Fig. 11s

1013

Add Delete Device Dlg

X

1013a Device Host: 192.168.1.202

1013b Device Port: 1521

1013c SNMP Retry:

1013d SNMP Timeout:

1013e Admin. Password:

1013f Prov. Password:

1013g Viewer Password:

1013h Add

1013i OK

Cancel

Delete

Fig. 11t

User Resource Group Map Table

	1016b		1016
1016a	LID	User LID	User Resource Group LID
	8086	2012	1024
	⋮	⋮	⋮

1016c

Fig. 11u

User Resource Group Table

	1018a	1018b	1018c	1018
1018d	LID	Host LID	Group Name	
	1024	9046	Walmart-East	
	⋮	⋮	⋮	

Fig. 11v

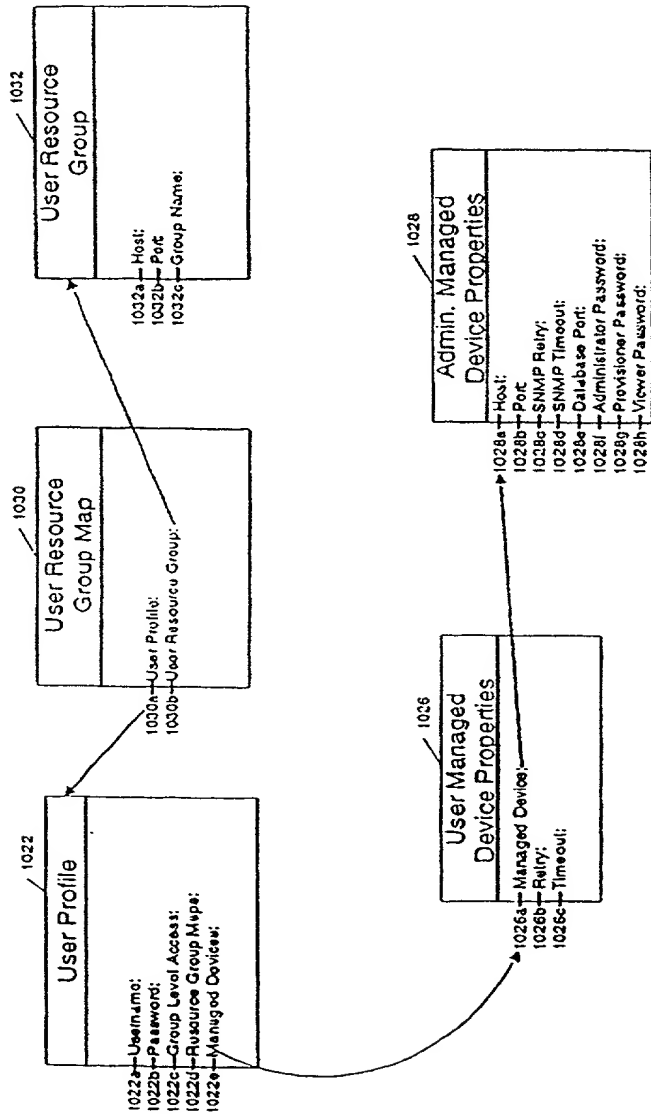


Fig. 11w

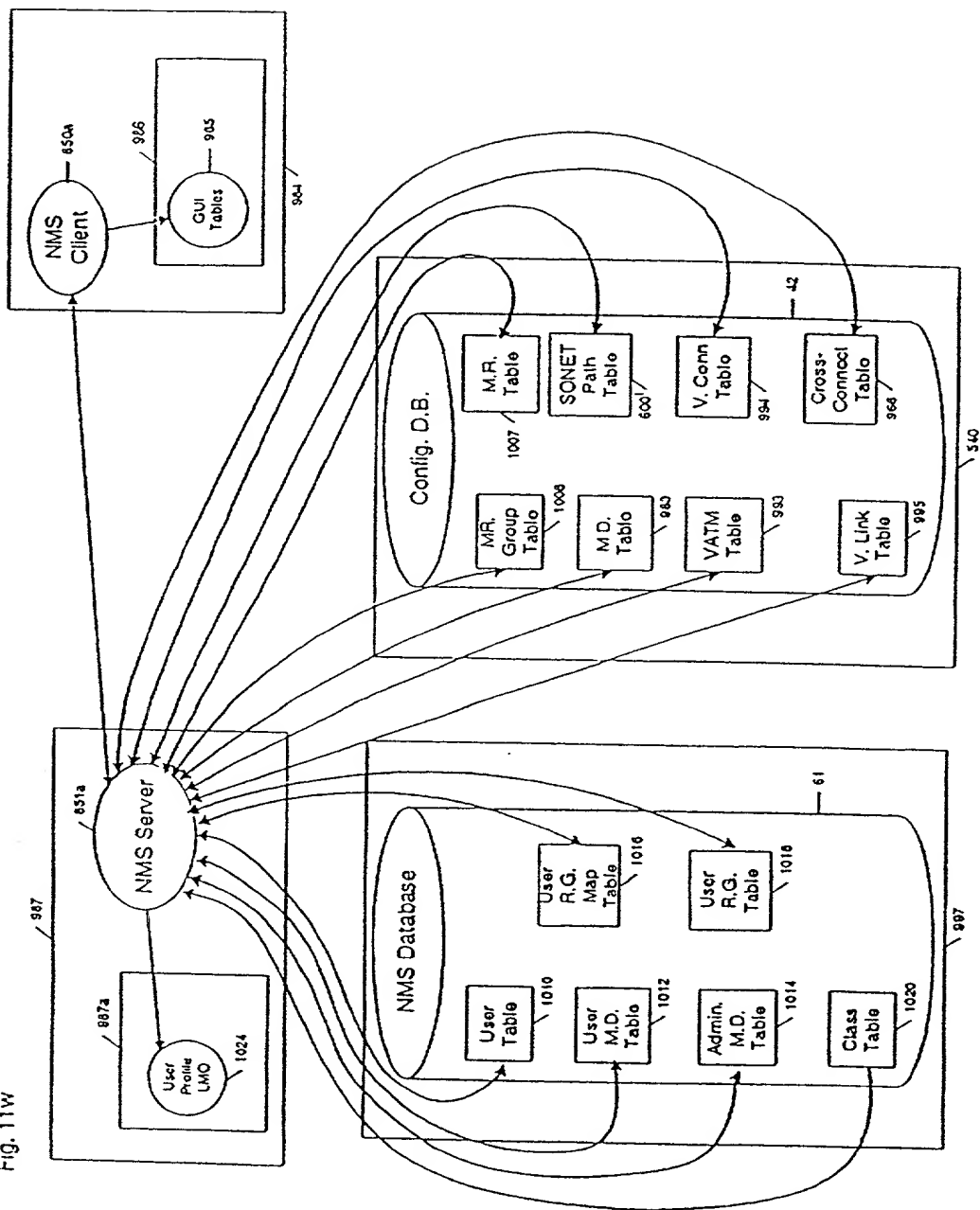


Fig. 11x

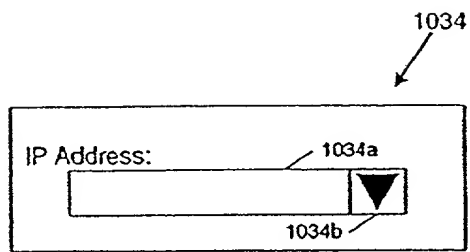
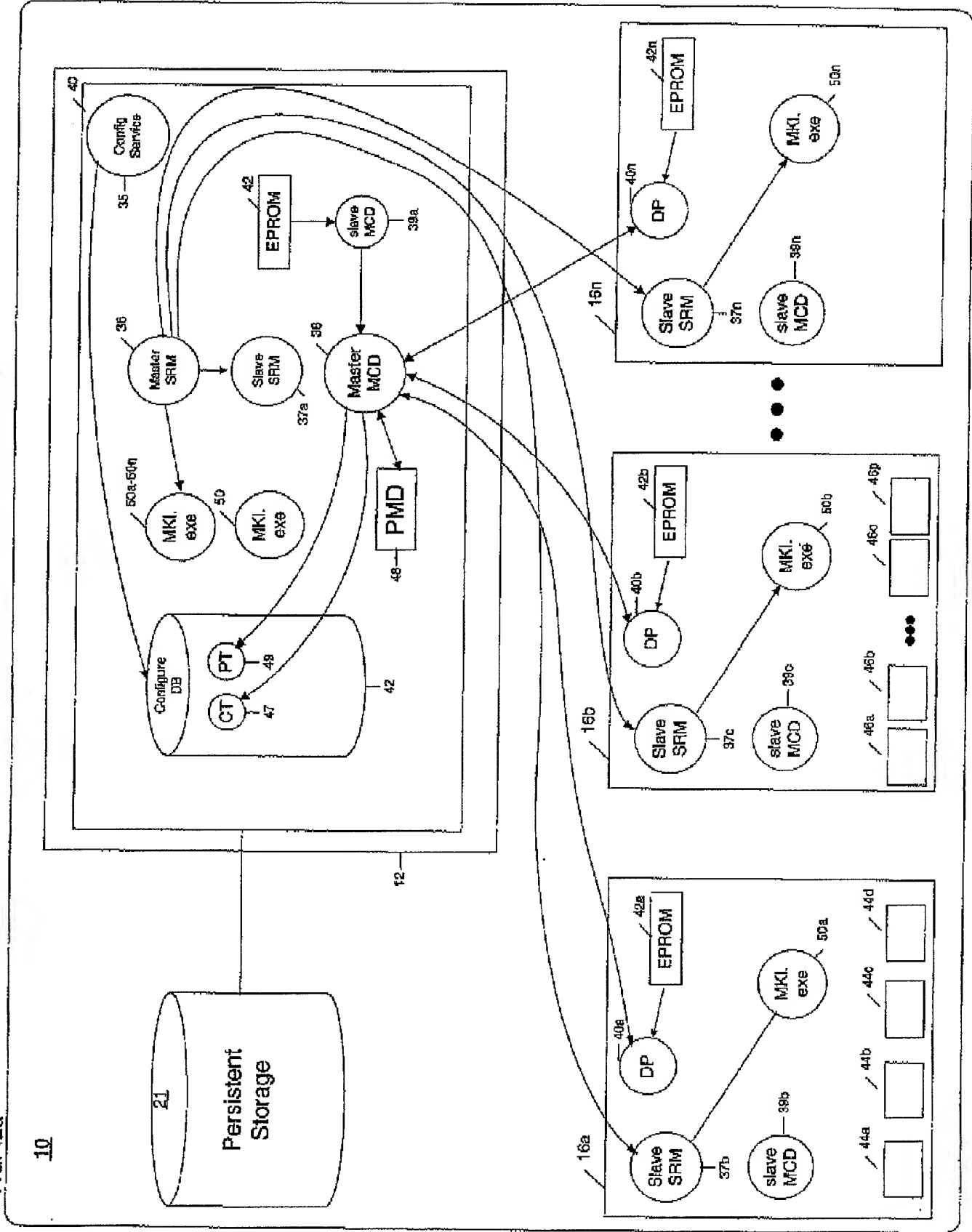


FIG. 12a



CARD TABLE

47

PID	CWD TYPE	VERSION NO.	SLOT NO.	...
16 a	500	0XF002	3	1
16 b	501	0XF002	4	2
	⋮	⋮	⋮	⋮
	505	0X6002	1	5
16 e	⋮	⋮	⋮	⋮
	513	0XF002	1	12
16 n	⋮	⋮	⋮	⋮

FIG. 12b

PORT TABLE

49

PID	PORT TYPE	VERSION NO.	SLOT NO.	...
44a	1500	00620	1	1
44b	1501	00620	1	1
44c	1502	00620	1	1
44d	1503	00620	1	1
44a	1504	00820		
46a	:	:	:	:
	1600	00620	1	8
	:	:	:	:
	:	:	:	:

FIG. 12c

19

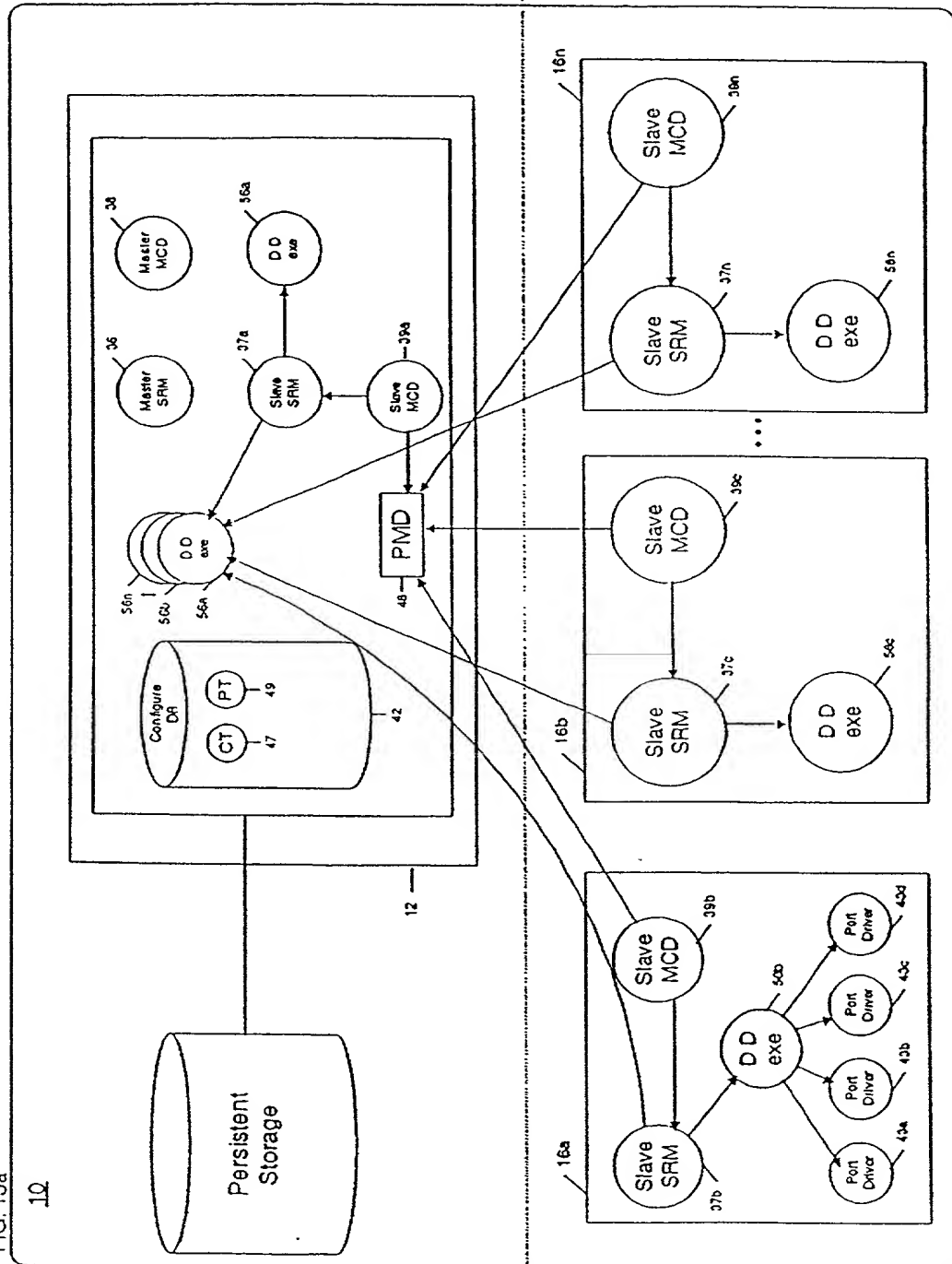


FIG. 13b

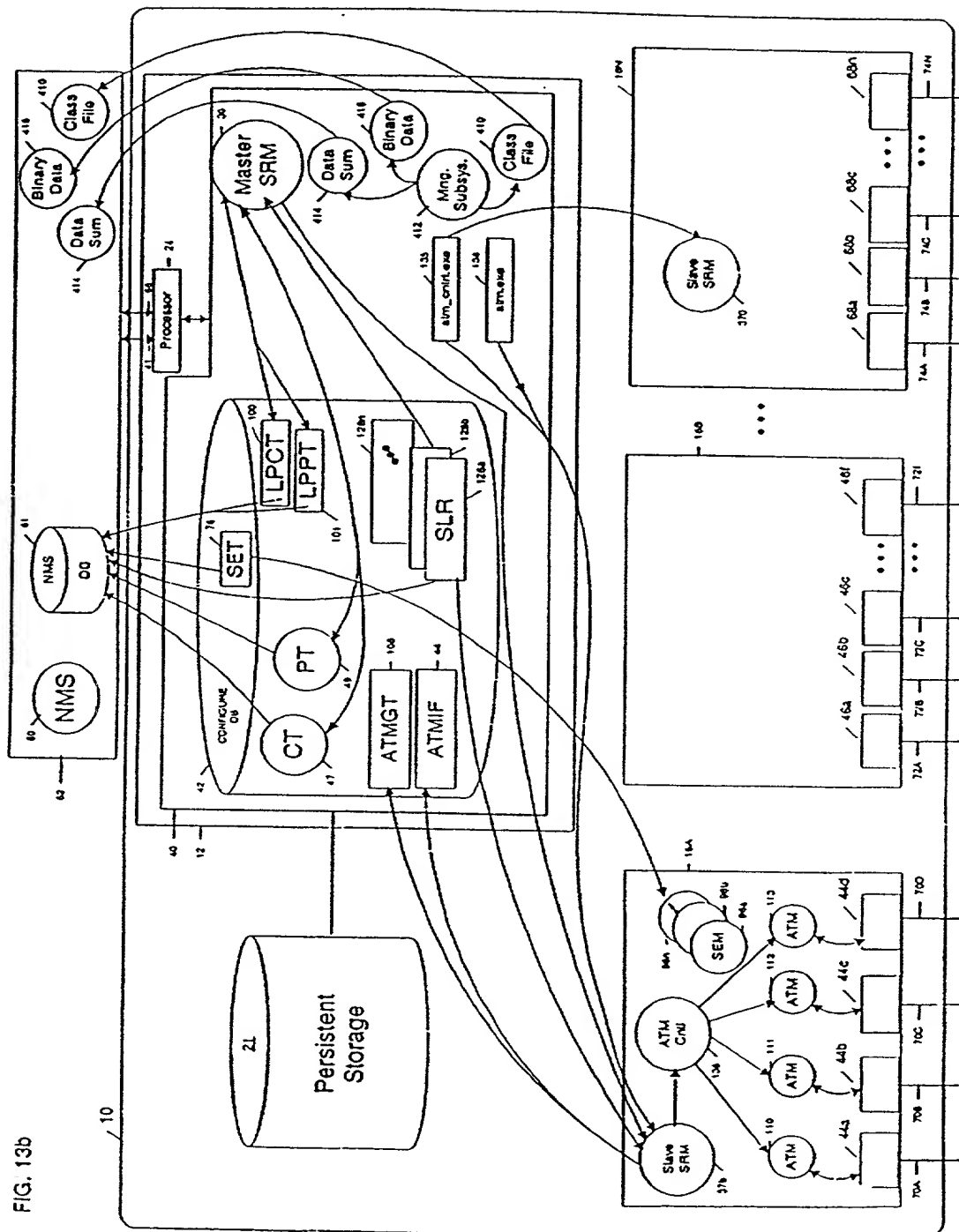


Fig. 13c

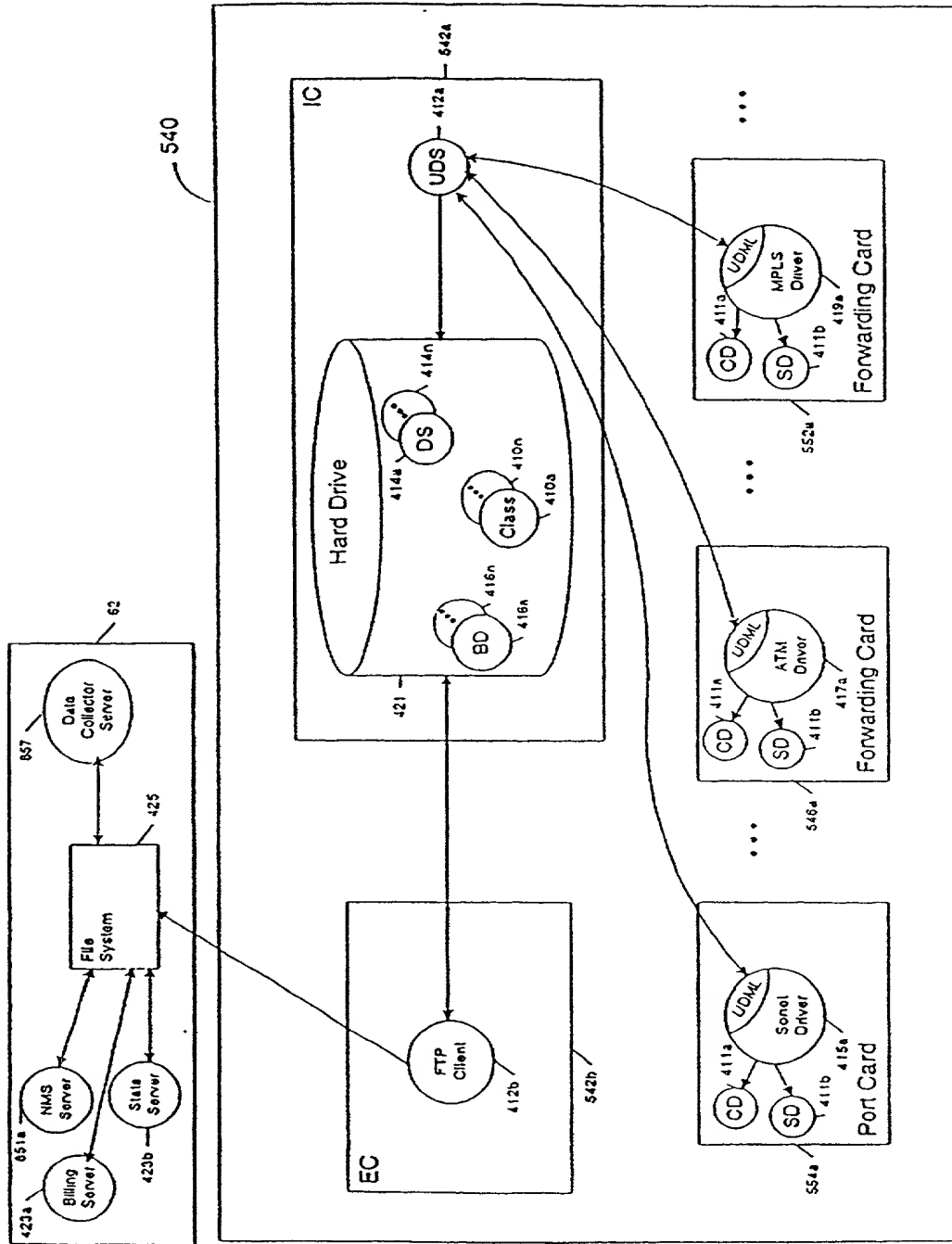


Fig. 13d

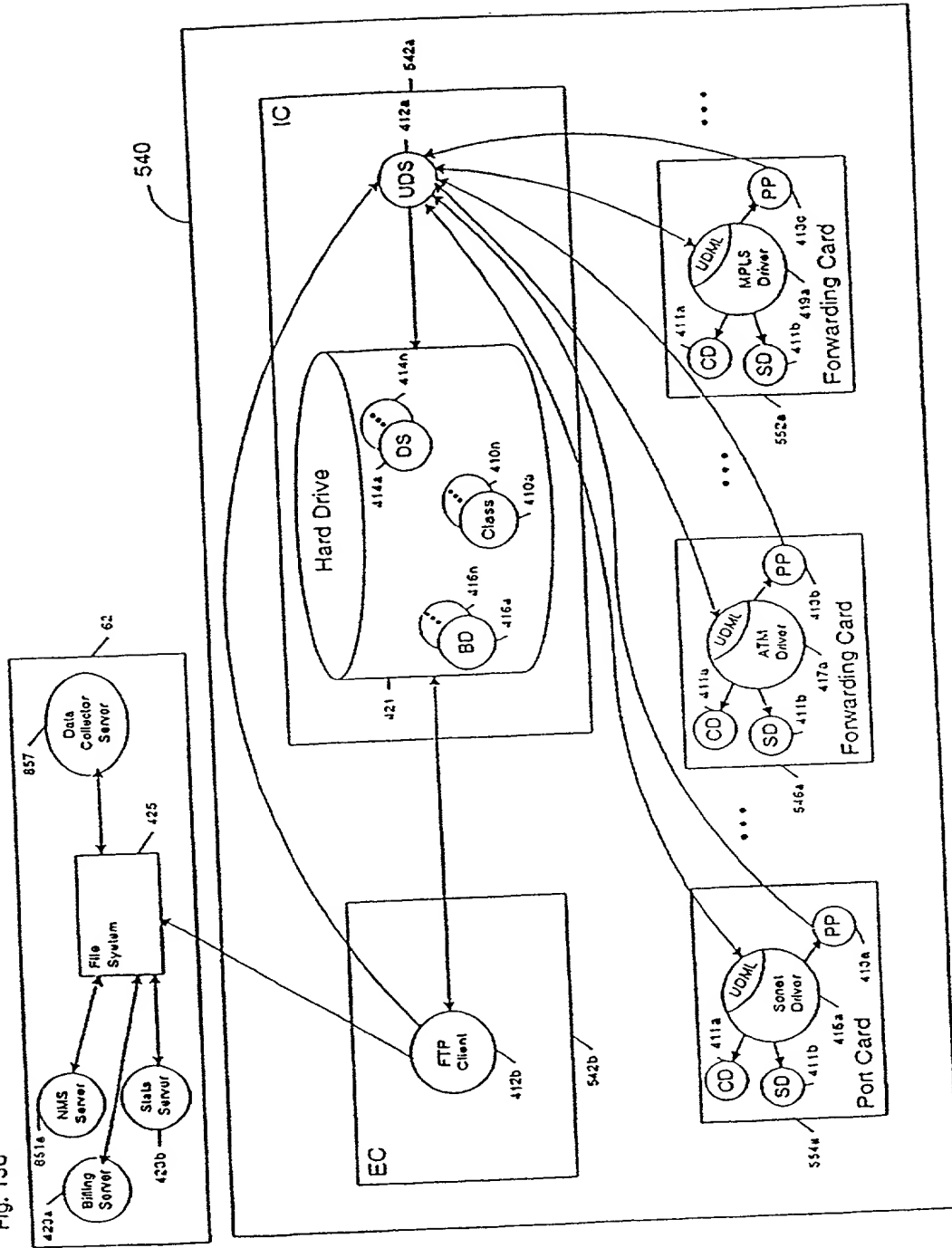


FIG. 14a

Service Endpoint Table 76

	Service Endpoint #	Port PID
78	1	1500
80	2	1501
82	3	1501
84	4	1501
86	5	1502
88	6	1502
90	7	1503
92	8	1503
94	9	1503
168	10	1502
	⋮	⋮

FIG. 14b

Logical to Physical Card Table 100

	98 LID	102 Primary PID	104 Back-up PID
106	30	500	513
109	31	501	513
	⋮	⋮	⋮

FIG. 14c

Logical to Physical Port Table 101

	98 LID	102 Primary PID	104 Back-up PID
107	40	1500	1600
	⋮	⋮	⋮

FIG. 14d

ATM Group Table 108

Group #	Card LID	...
1	30	
2	30	
3	30	
4	30	

FIG. 14e

ATM Interface Table 114

ATM IF	ATM Group	SE	...
1	1	1	
2	1	1	
3	1	1	
4	2	2	
5	2	3	
6	2	4	
⋮	⋮	⋮	⋮
12	3	10	
⋮	⋮	⋮	⋮

FIG. 14f

Software Load Record 128a

130	Control Shim	LID	132
134	alm-cntl.exe	30	

FIG. 15

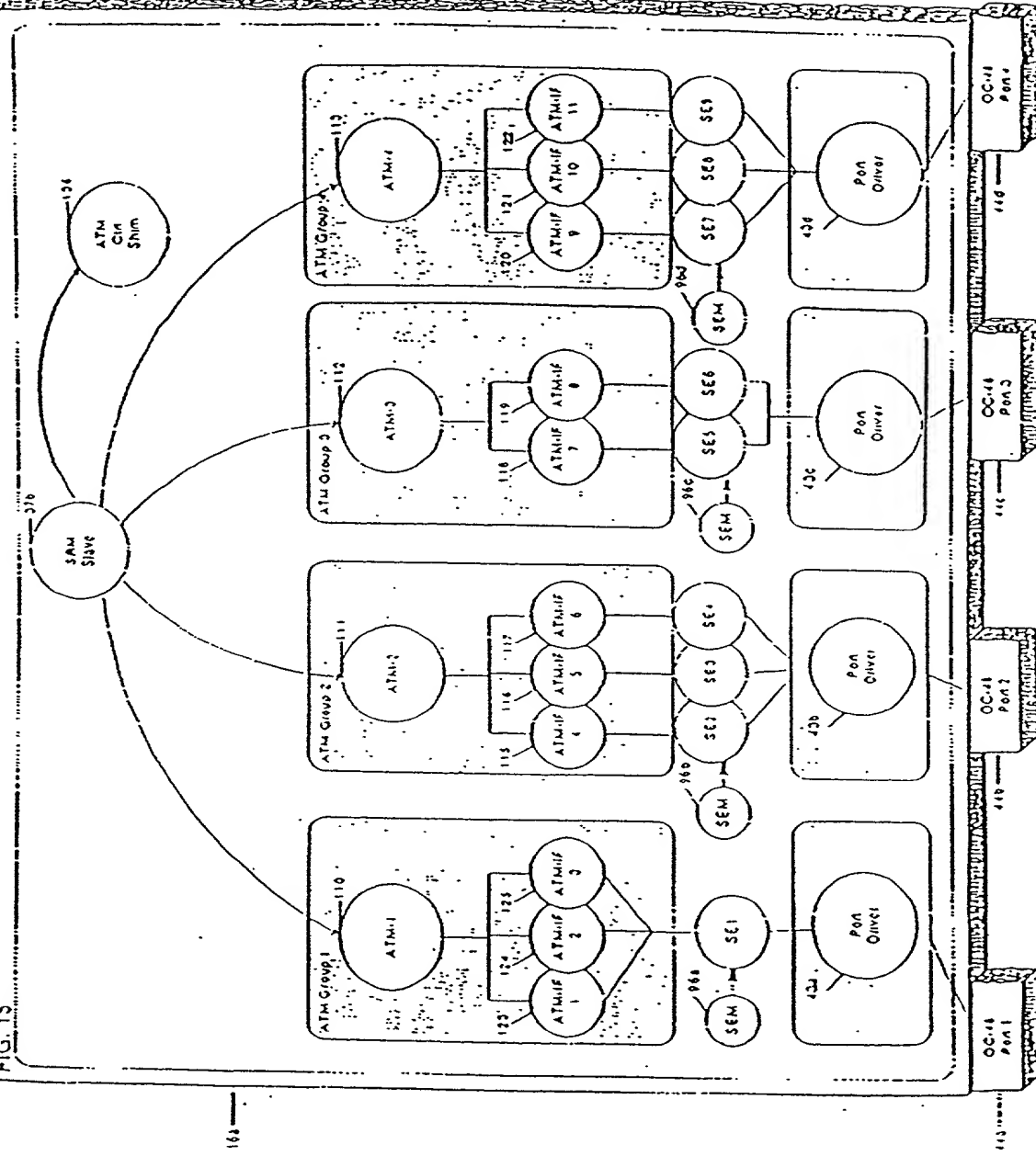
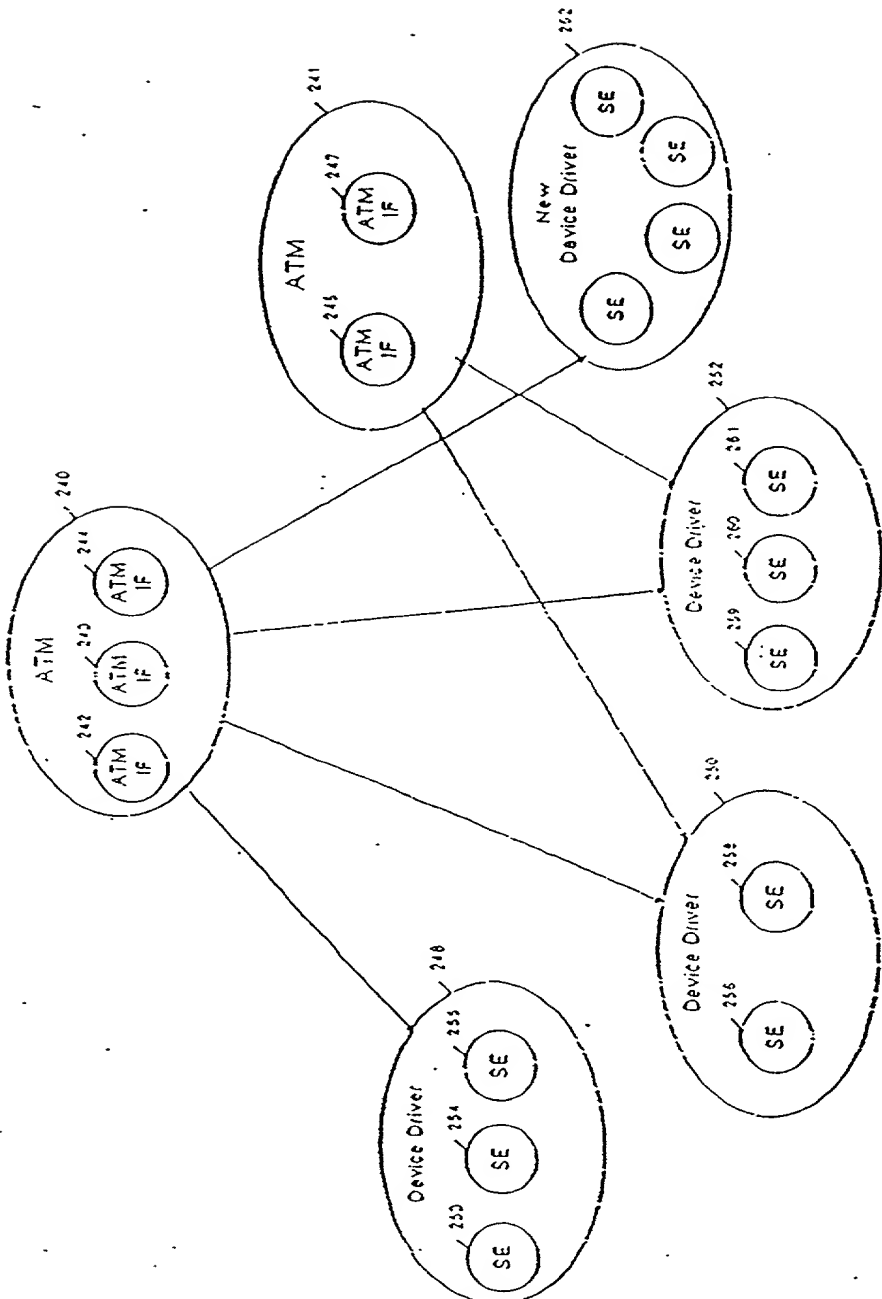


FIG. 16a



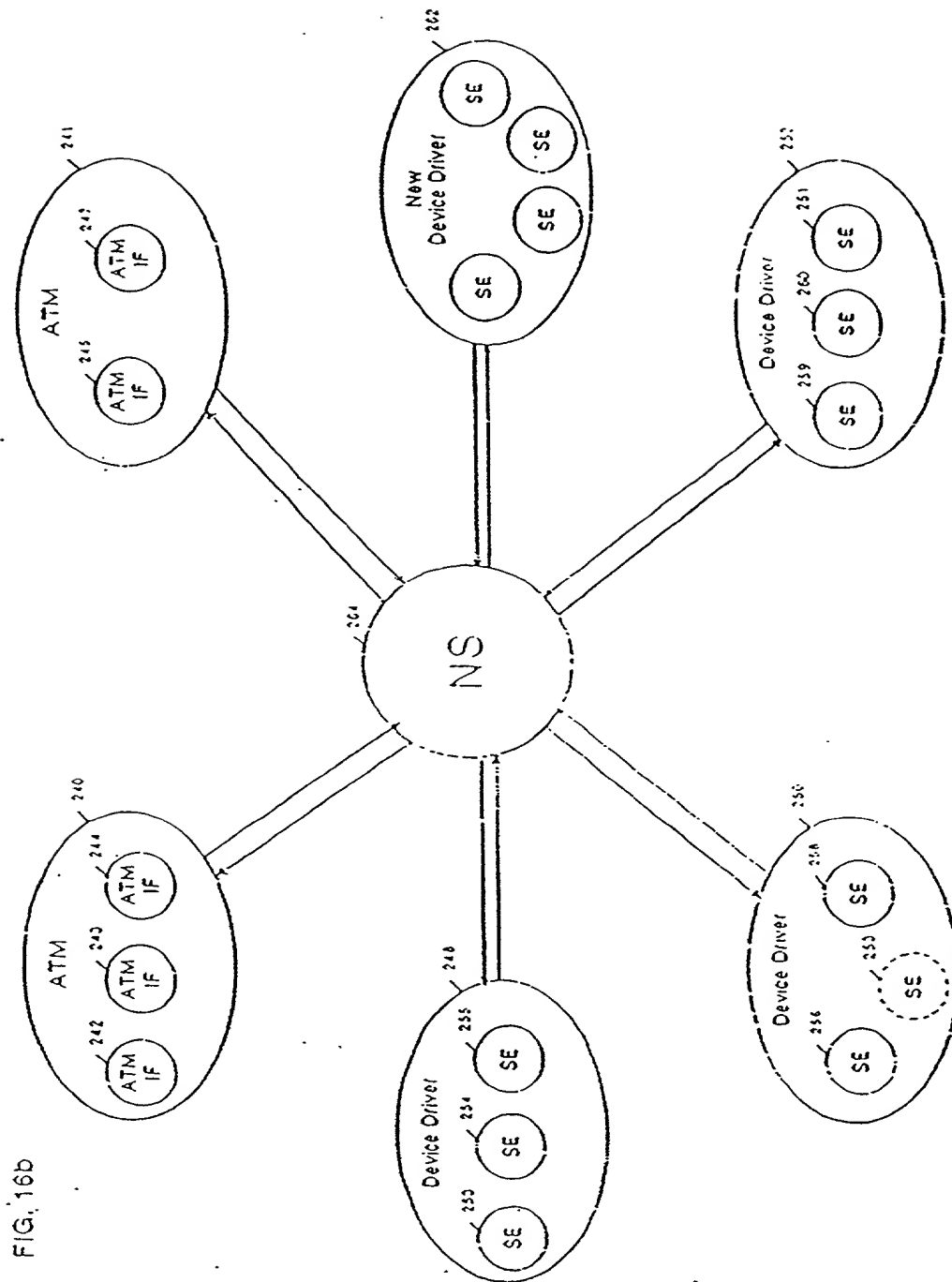
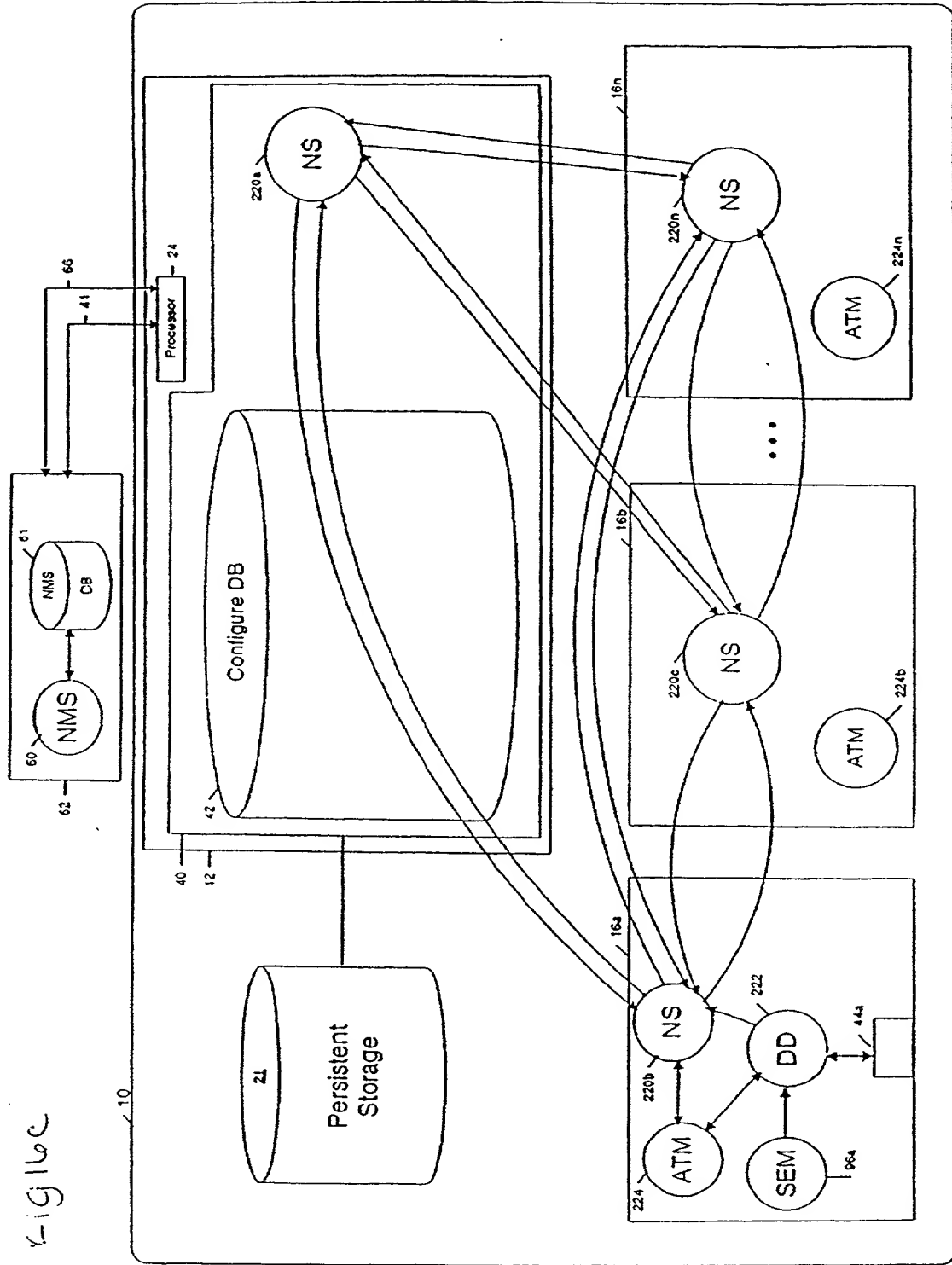
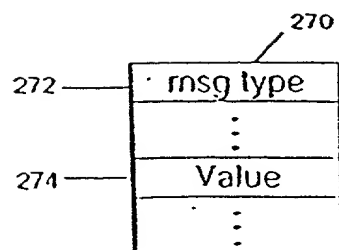
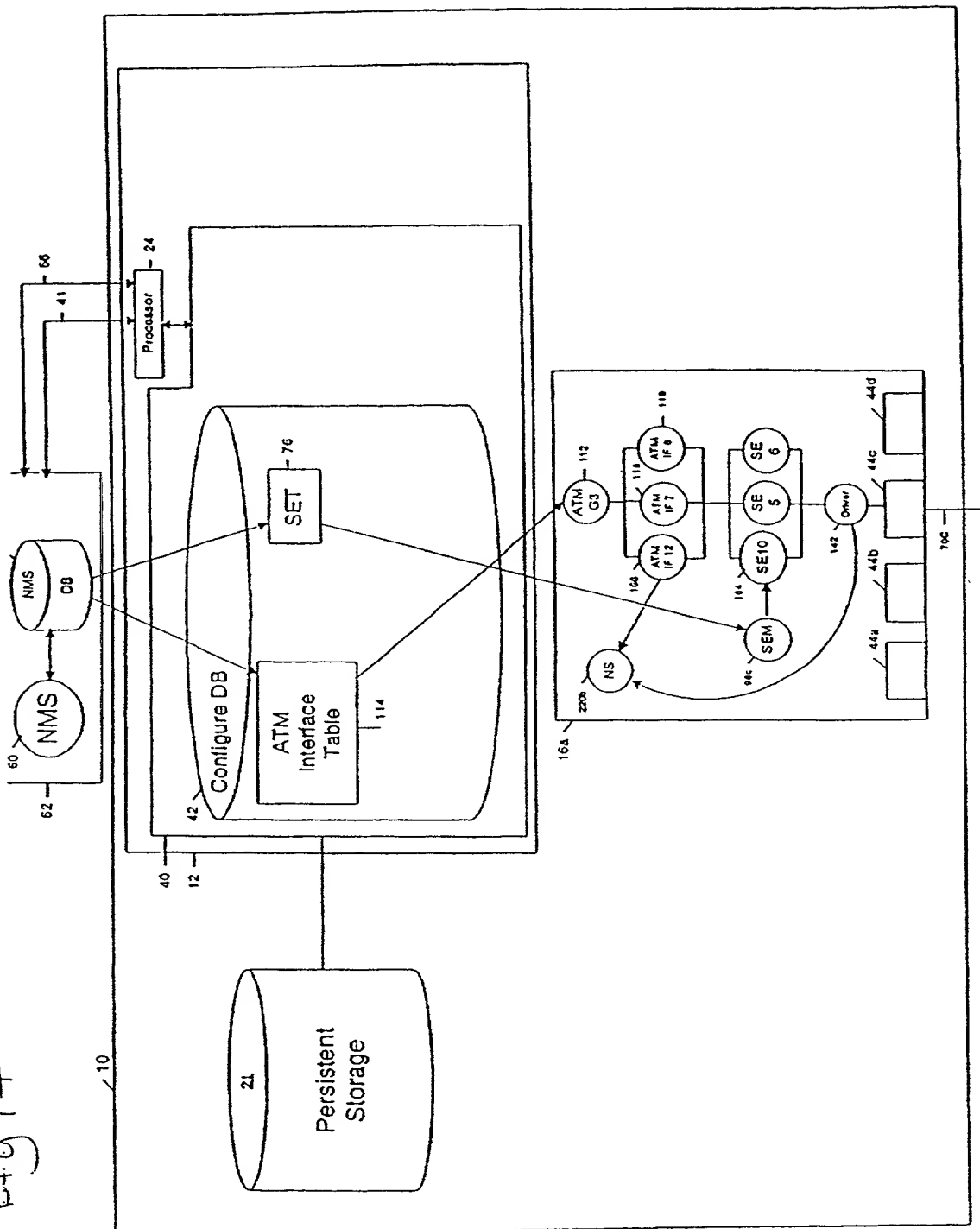


Figure 10



G. 16d





719

[illegible]

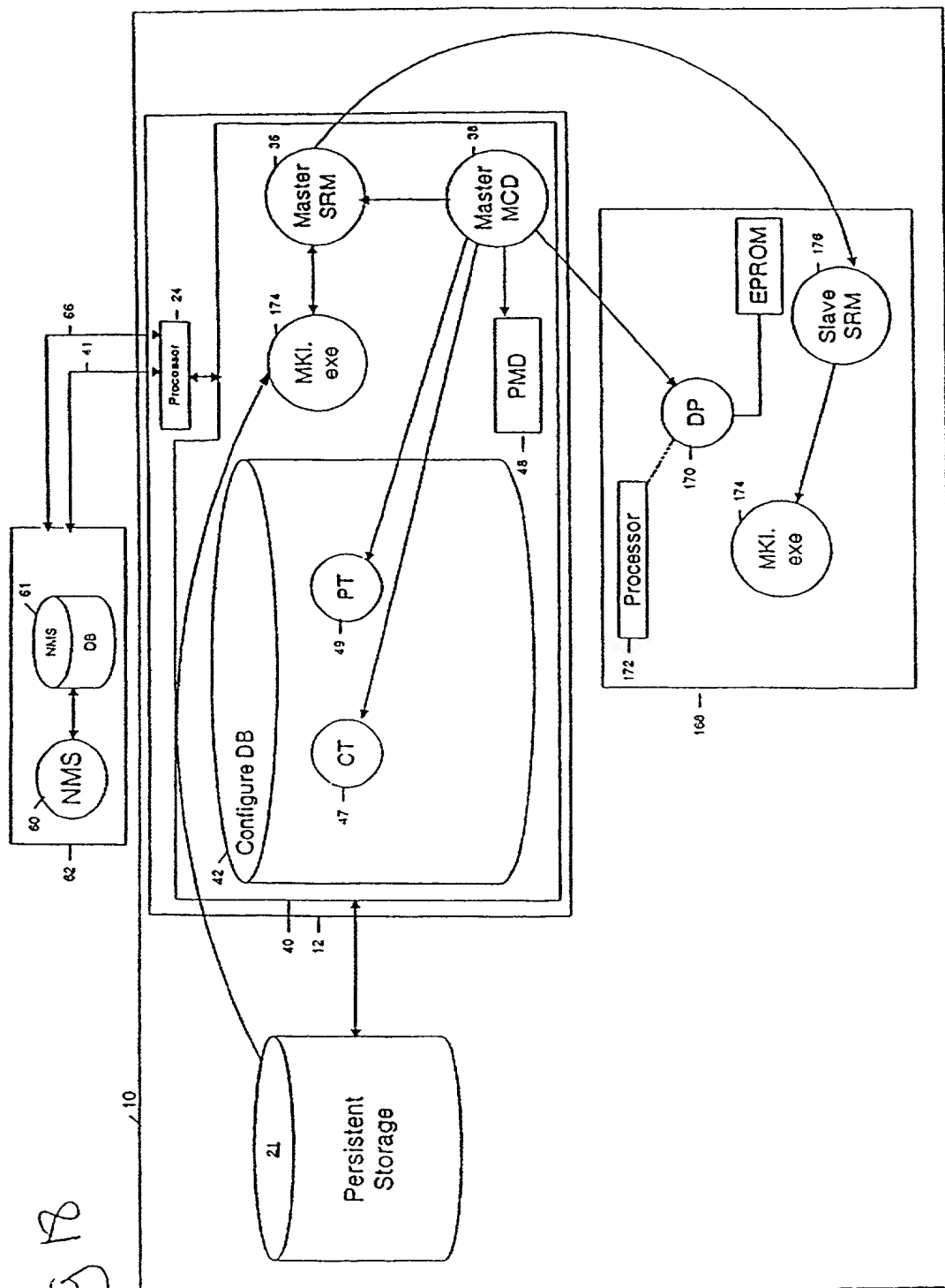


Fig 18

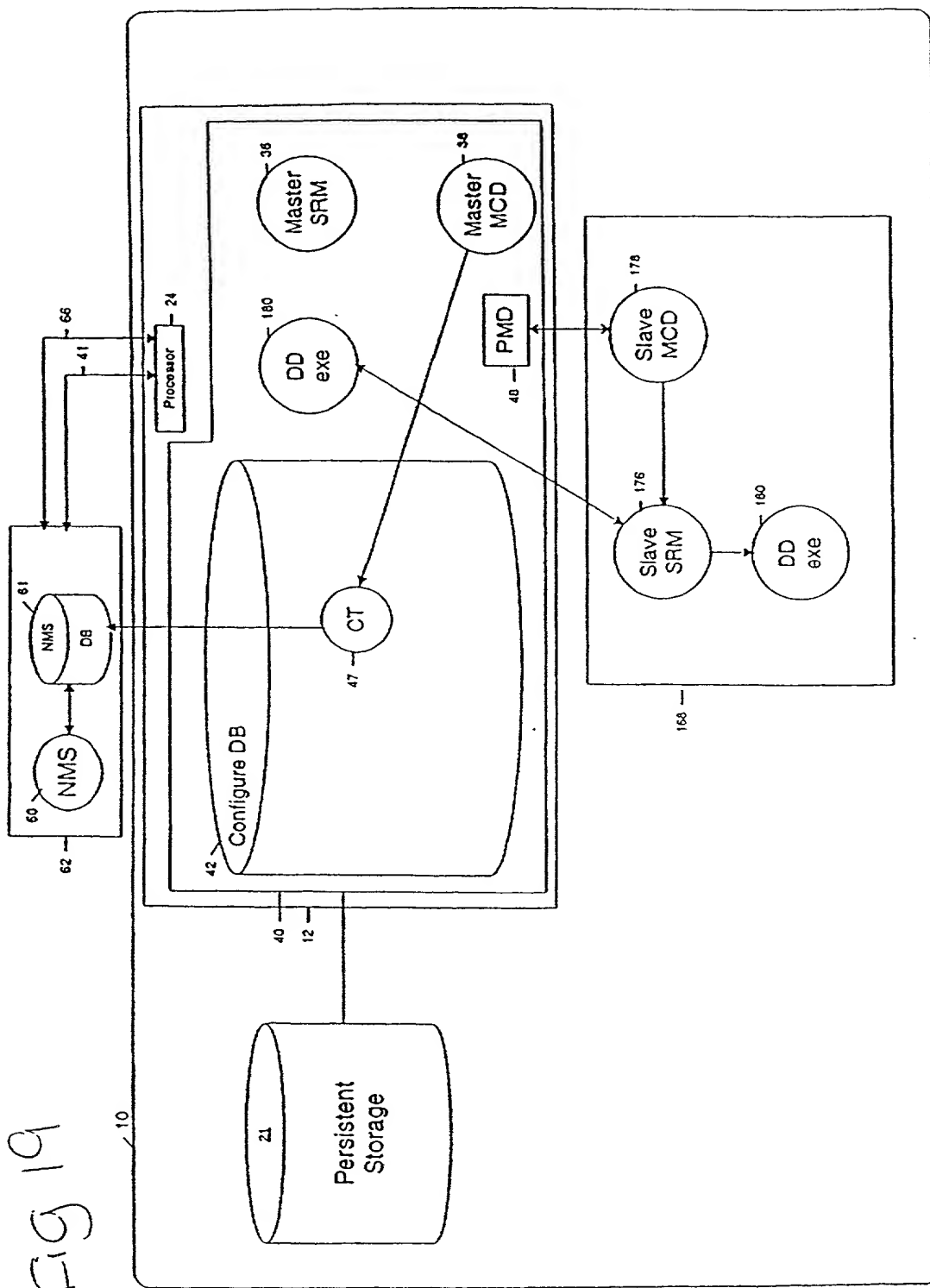


Fig. 20a

Packaging List

1200

863 -- SONET Driver	Signature
⋮	⋮
860 -- SONET APP	Signature
⋮	⋮
864a -- ATM Driver	Signature
⋮	⋮
864n -- ATM APP	Signature
⋮	⋮
865a -- MPLS Driver	Signature
⋮	⋮
866a -- MSS APP	Signature
⋮	⋮
867 -- DDL File	Signature

1200a -
1200n

Fig. 20b

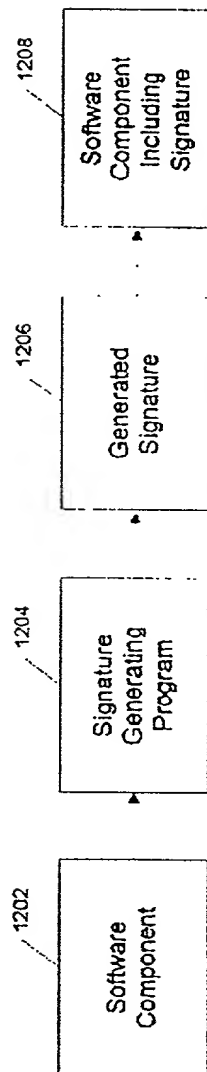
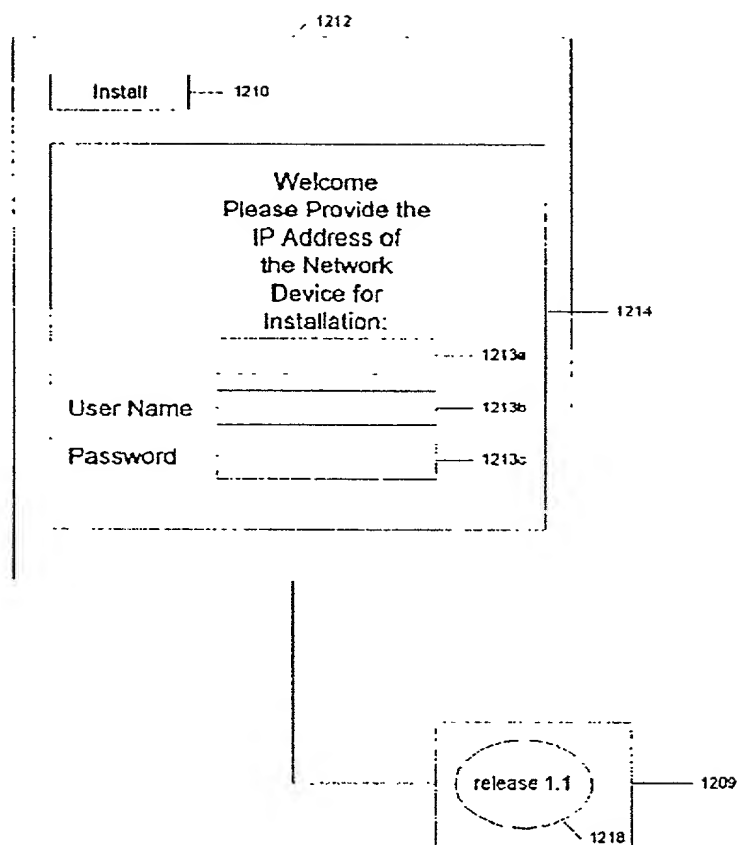


Fig. 20c



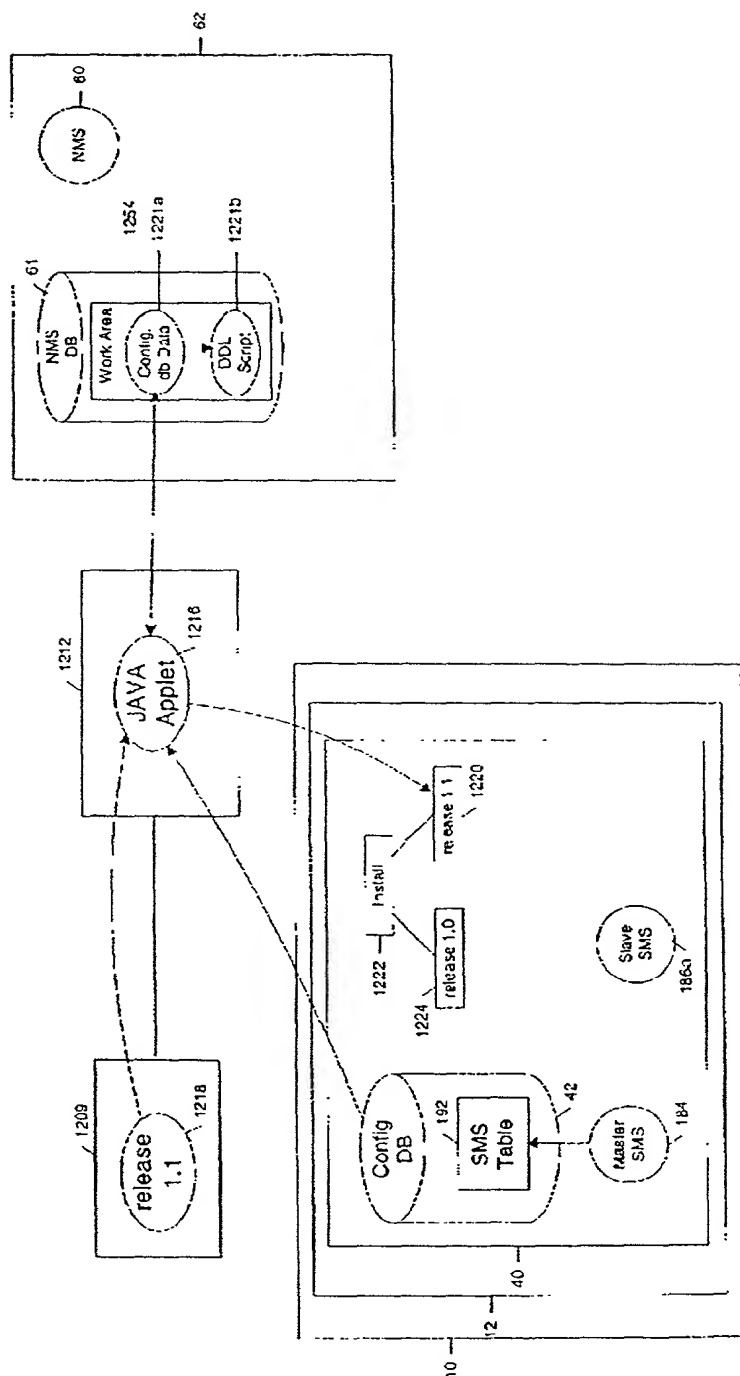
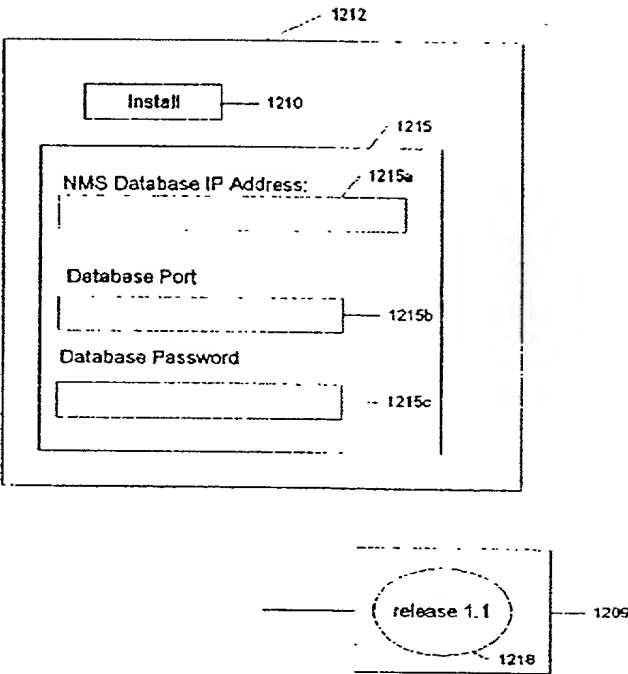
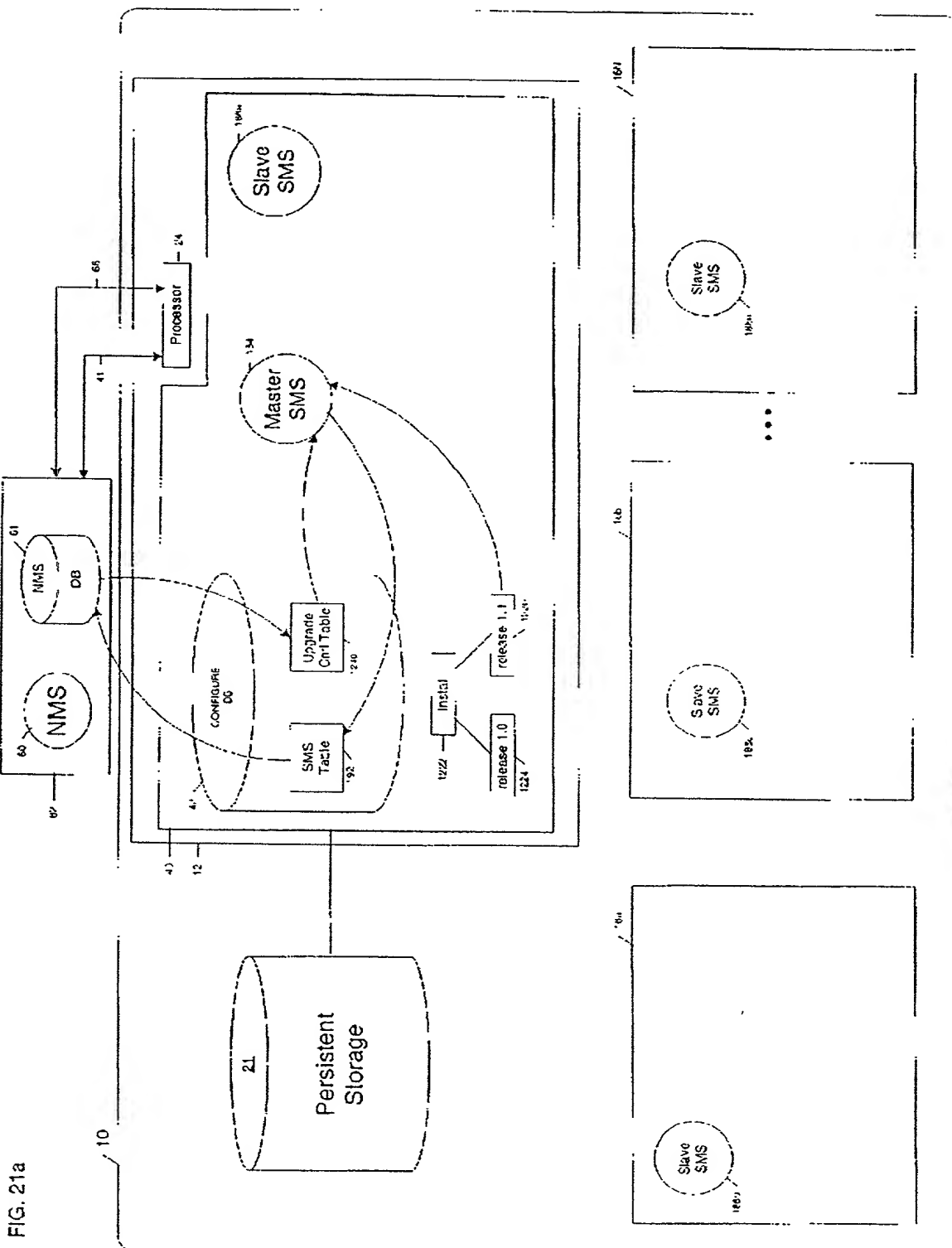


Fig. 20d

[illegible]

Fig. 20e





192

SMS Table

1227	Image LID 9623 :	Verification Status Passed :	Upgrade Modes x2348 :	...

Fig. 21b

1232

Available Releases	
Release 1.0	
Release 1.1	

1230

Fig. 21c

895

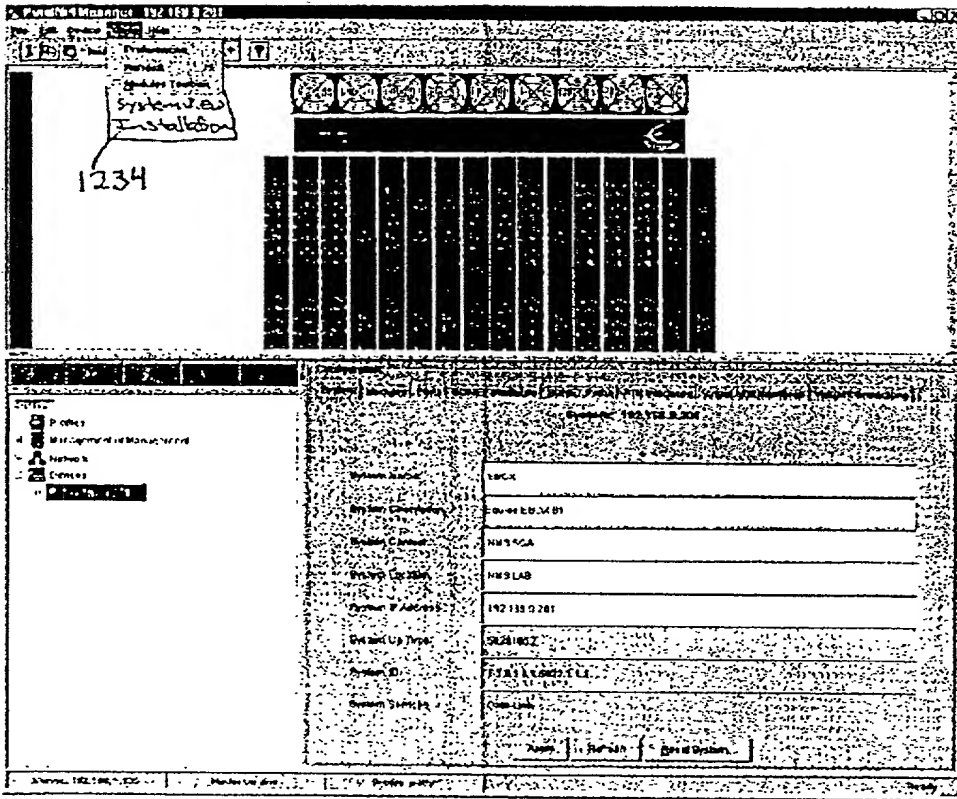


Fig. 21d

Fig. 21e

Image Control	
<input type="checkbox"/>	Delete -1238
<input type="checkbox"/>	Re-verify -1239
<input type="checkbox"/>	Install -1240

1238

Fig. 21f

Upgrade Mode	
<input type="checkbox"/>	Hot -1243
<input type="checkbox"/>	Cold -1244
<input type="checkbox"/>	Entire Chassis -1245
<input type="checkbox"/>	Board-by-Board -1246
<input type="checkbox"/>	Path-by-Path -1247
<input type="checkbox"/>	...
<input type="checkbox"/>	Time for Installation

1242

1248

1250 —

1251 —

Upgrade Control Table			
Image LID	Command	Time for Installation	Status
9623	x2344		...
⋮	⋮	⋮	⋮

1248

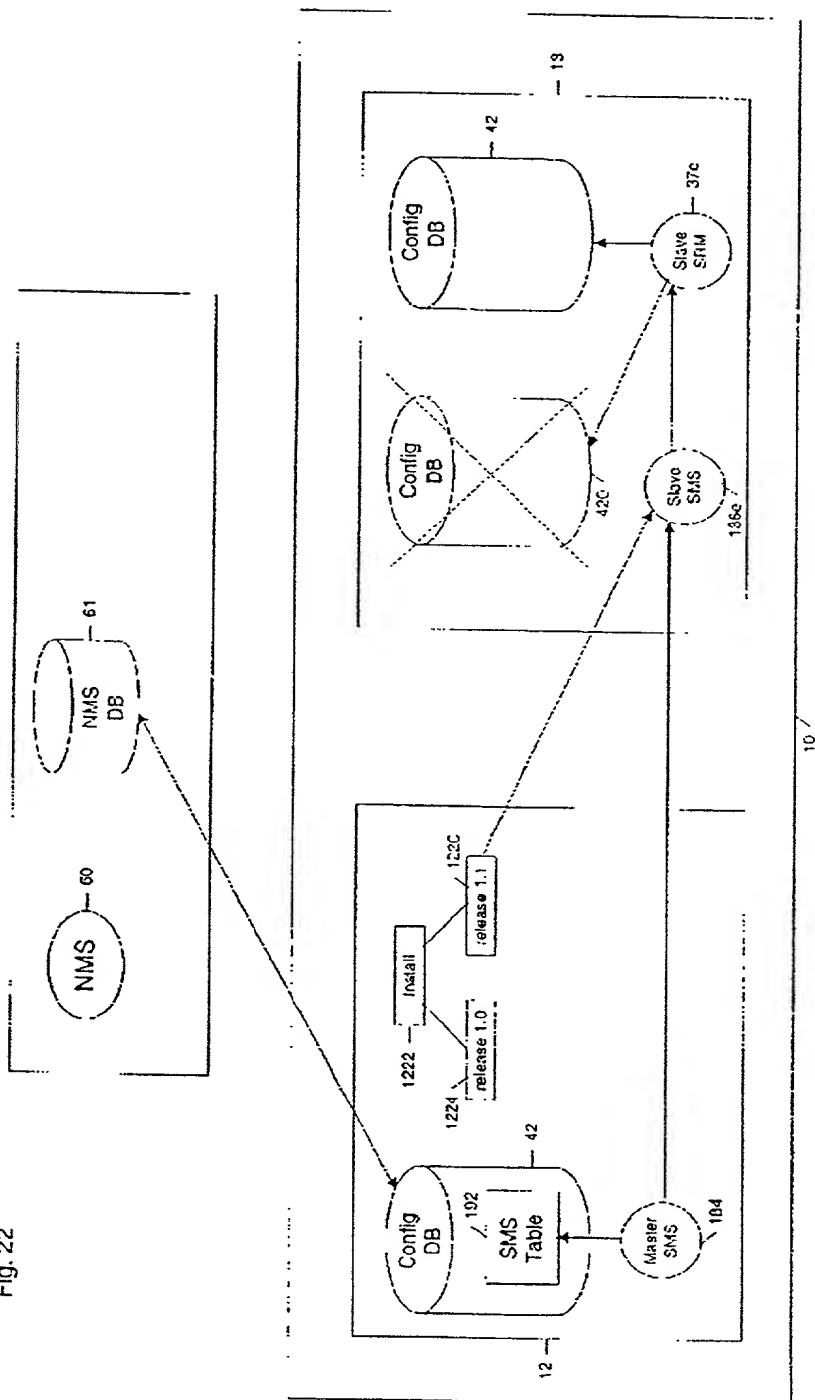
1252

1253

1255

Fig. 21g

Fig. 22



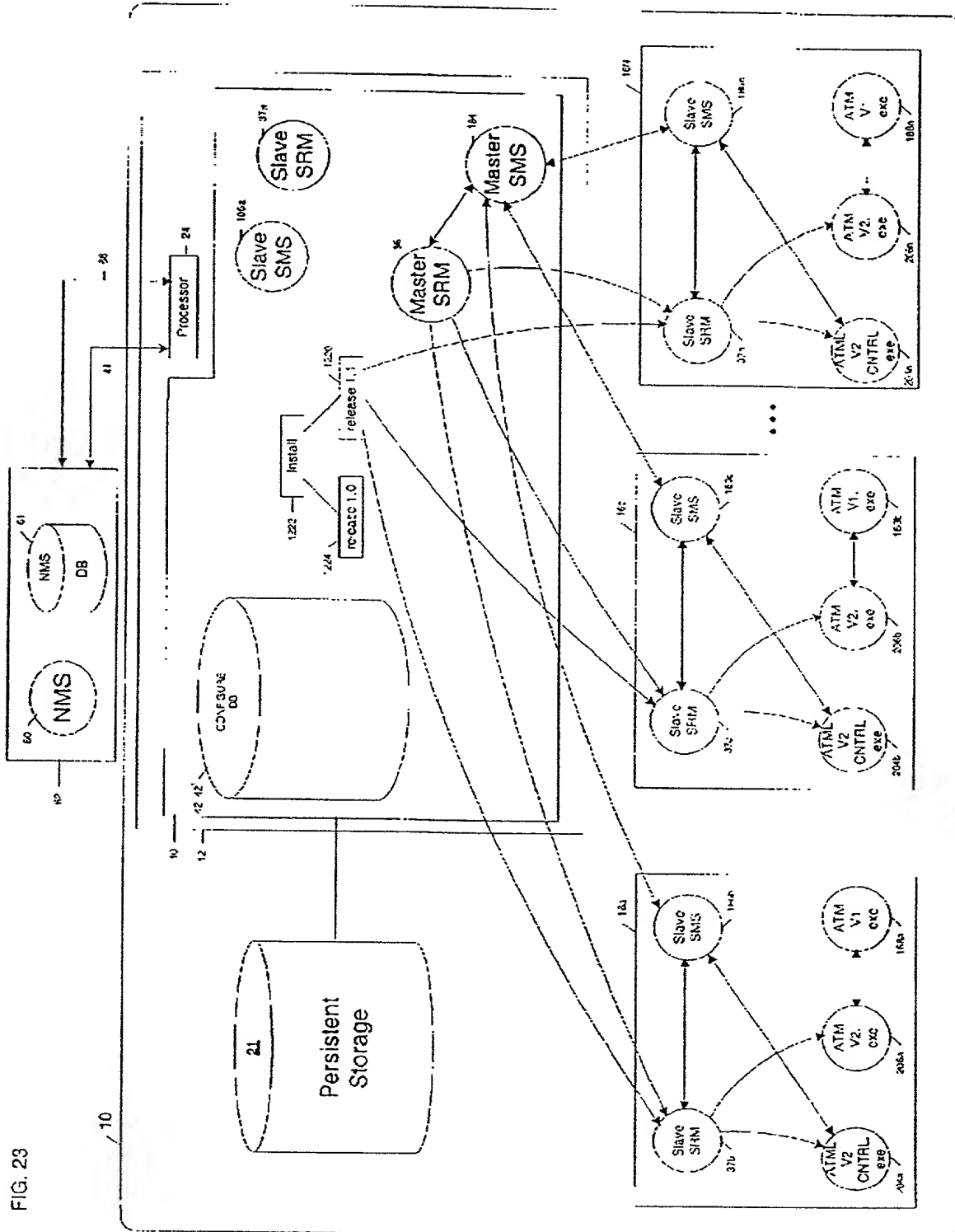
[illegible]

FIG. 2A

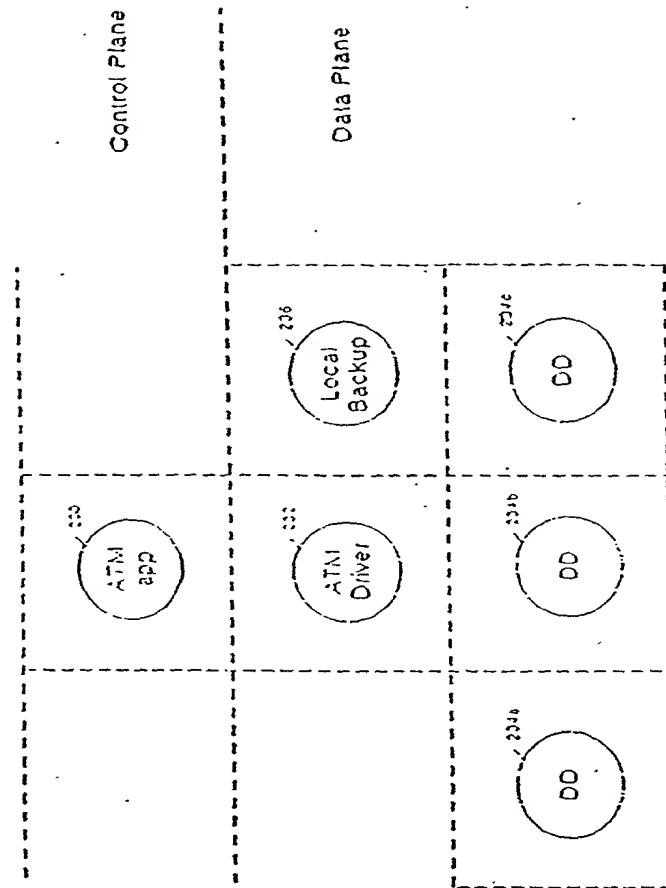


FIG. 25

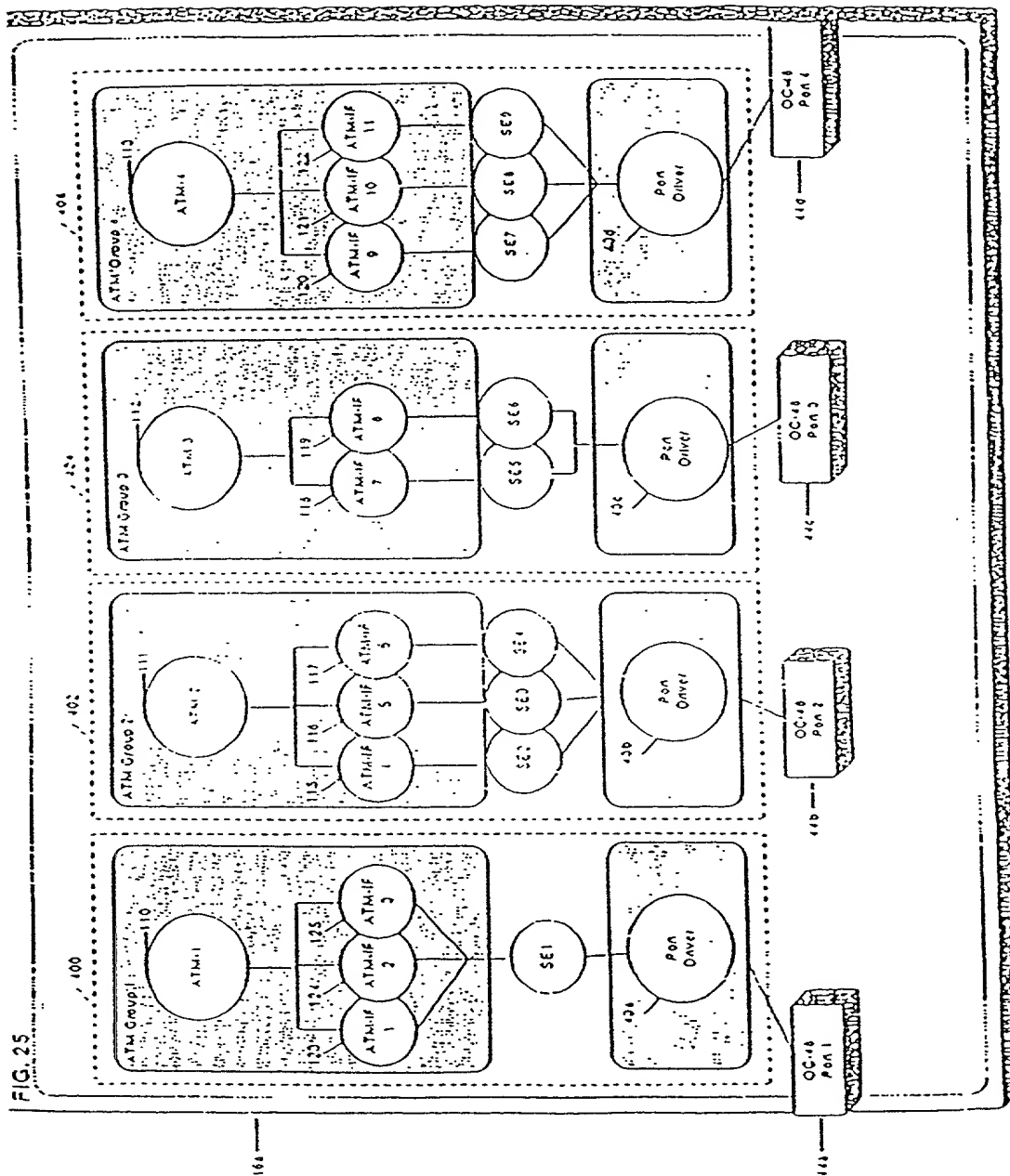


Fig 2b

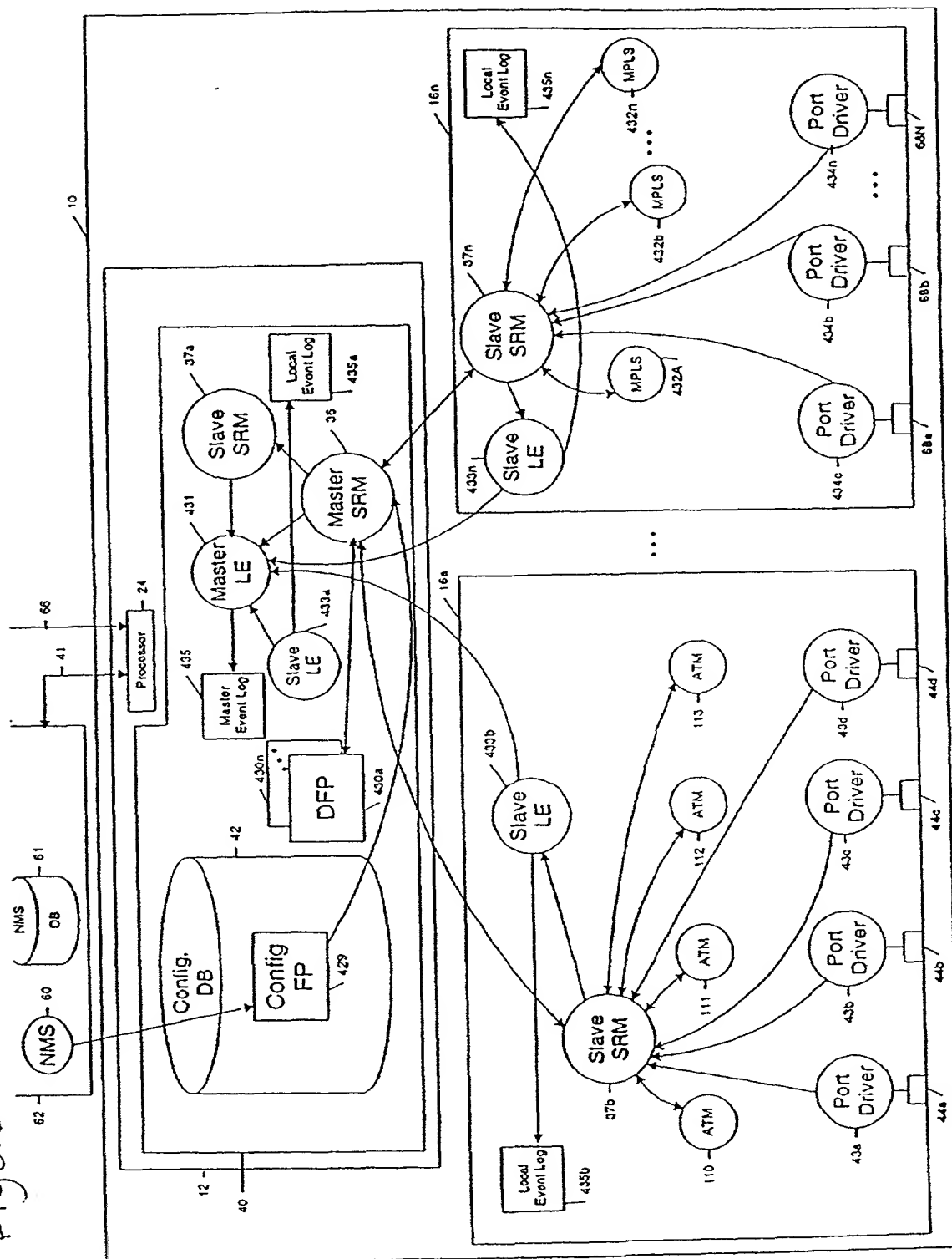


FIG. 27

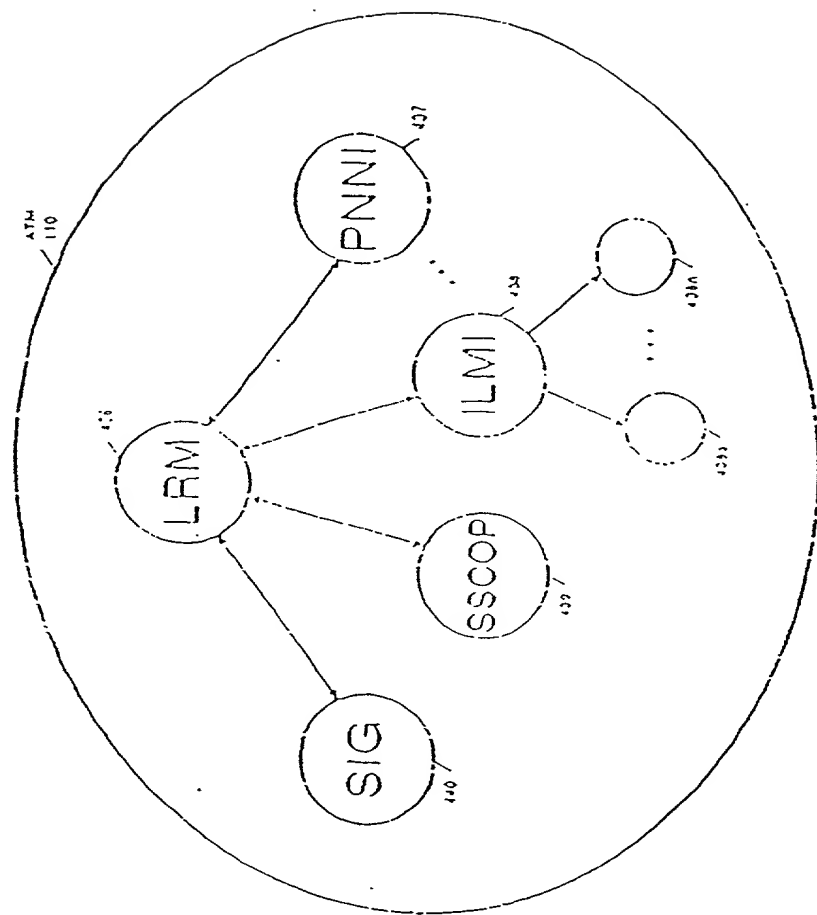


FIG. 28

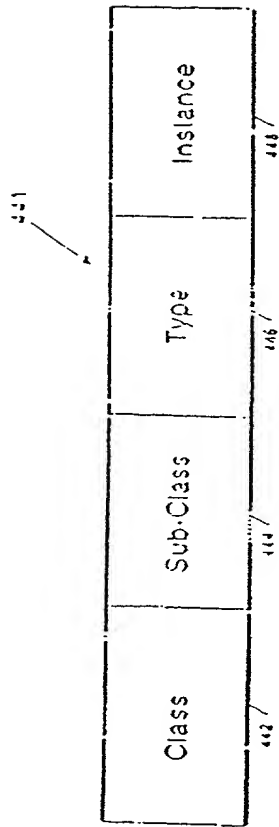


FIG. 29

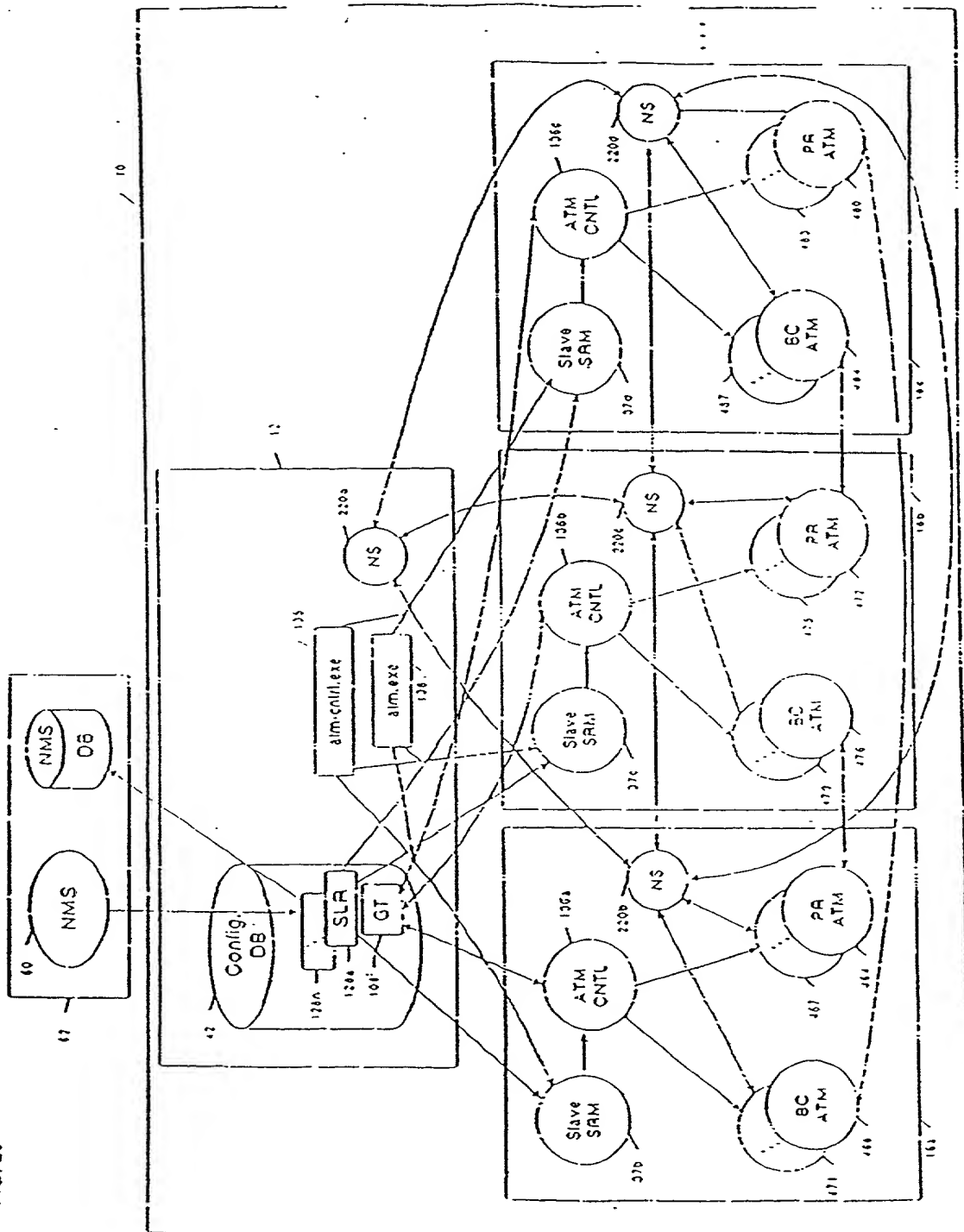


Fig 30

Table 108

447

449

	Group #	Primary Card LID	Backup Card LID	...
450	1	30	31	
451	2	30	31	
452	3	30	31	
453	4	30	31	
454	5	31	32	
455	6	31	32	
456	7	31	32	
457	8	31	32	
458	9	32	30	
459	10	32	30	
460	11	32	30	
461	12	32	30	

Fig. 31a

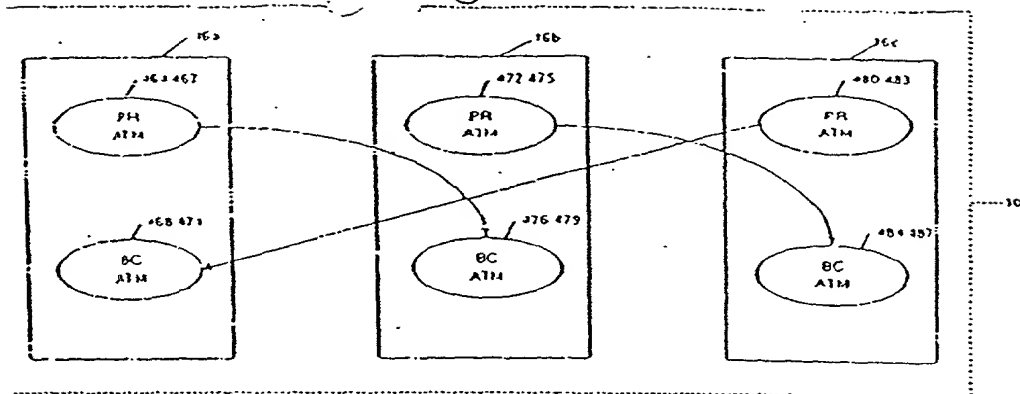


Fig. 31b

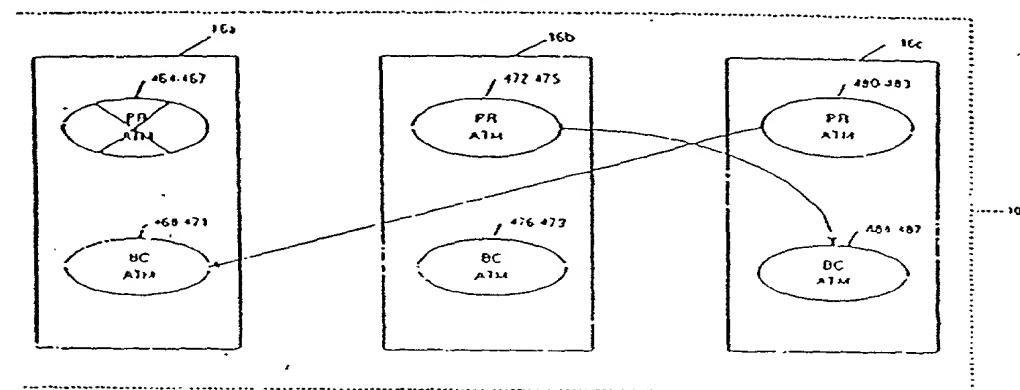
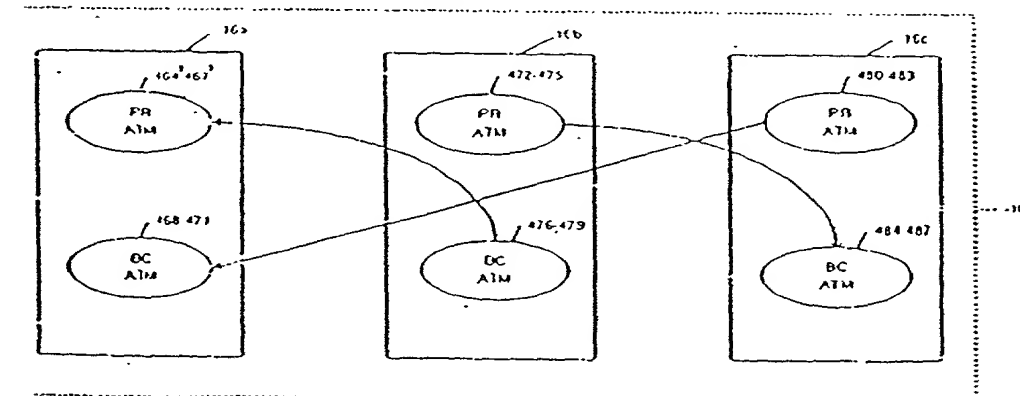


Fig. 31c



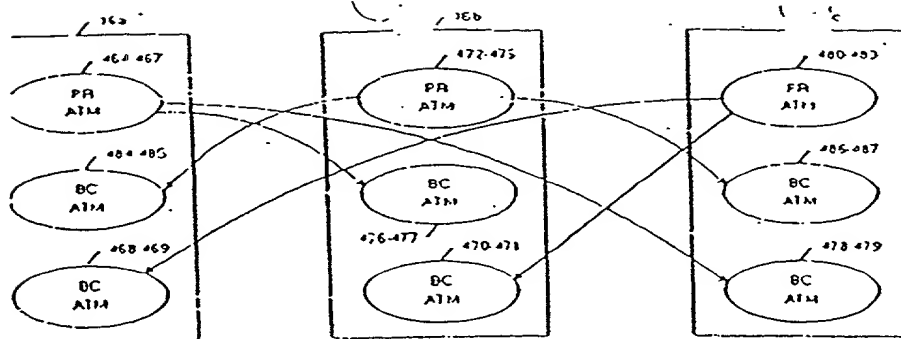


Fig. 32b

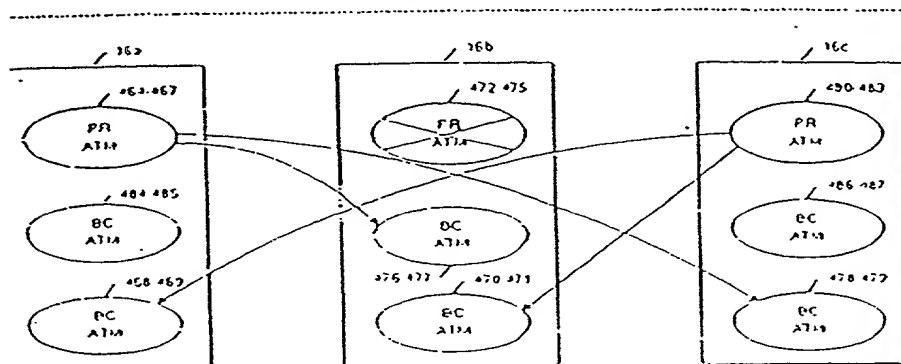


Fig. 32c

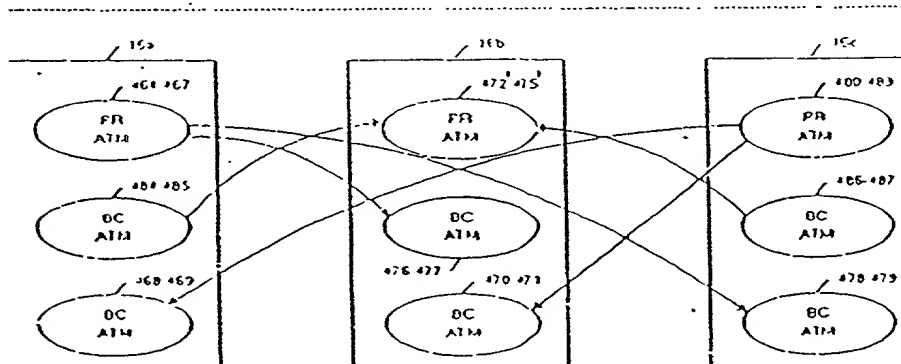
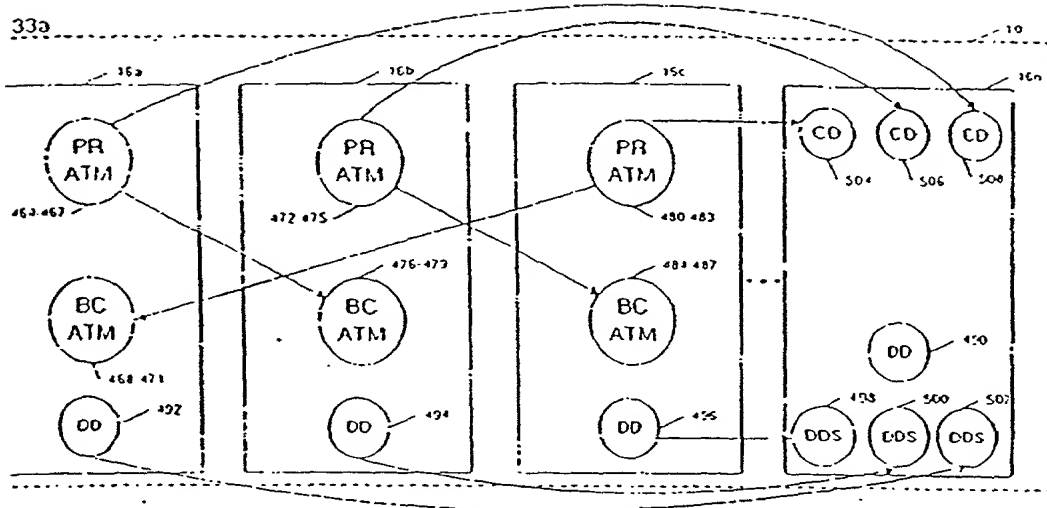
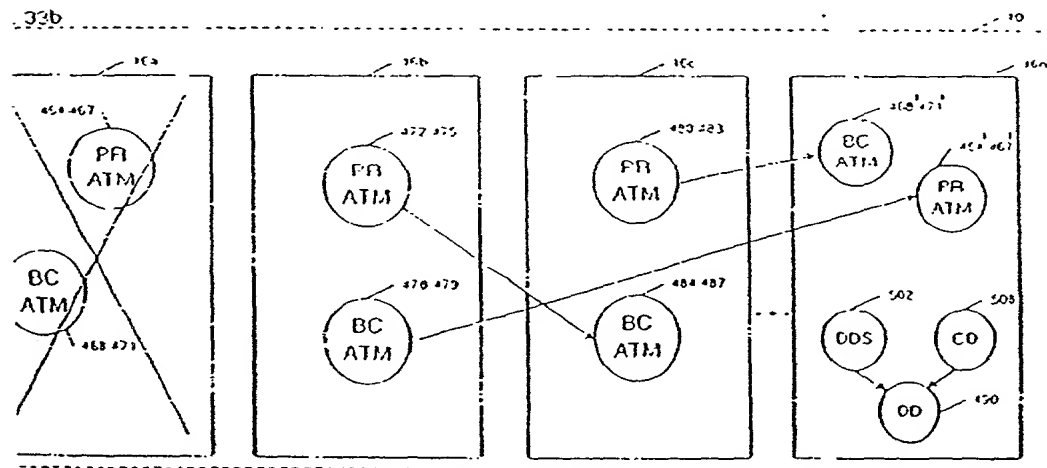


Fig. 32A

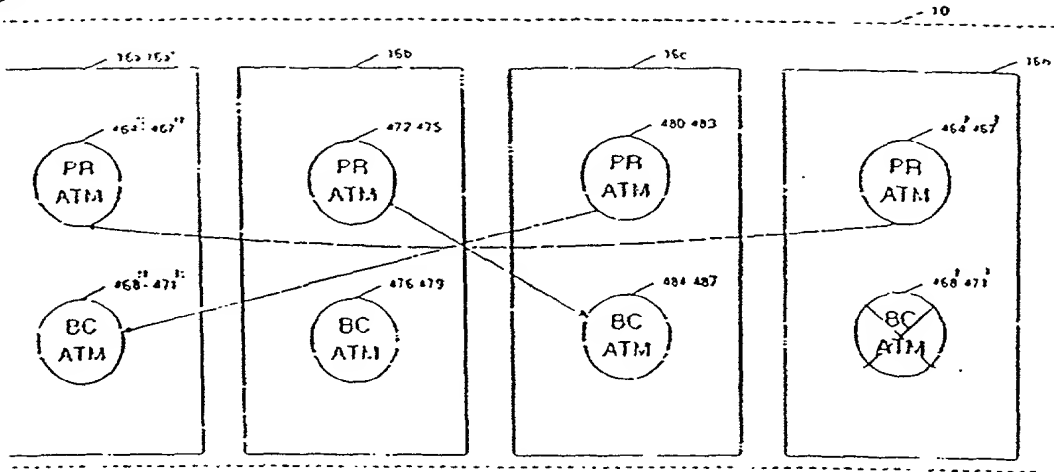
33a



33b



33c



33d

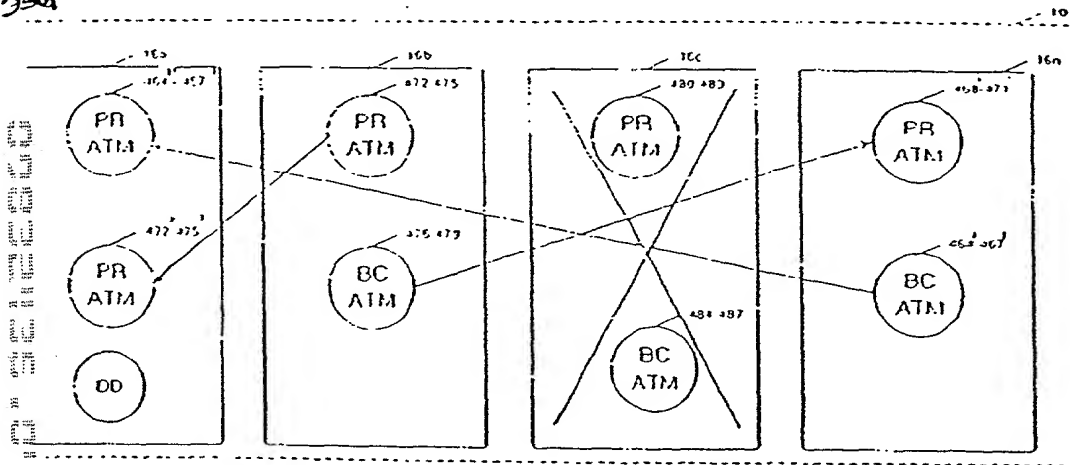
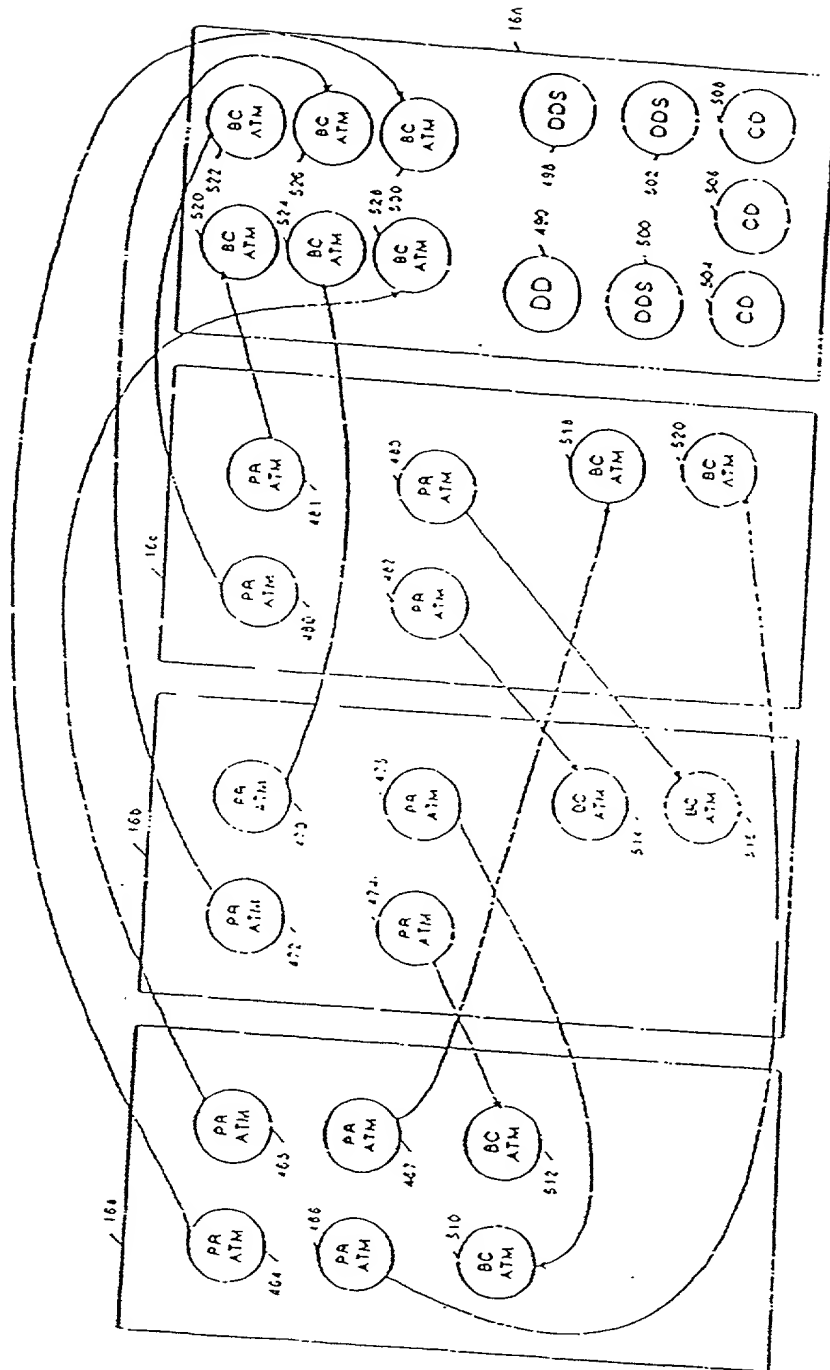


Fig. 34a



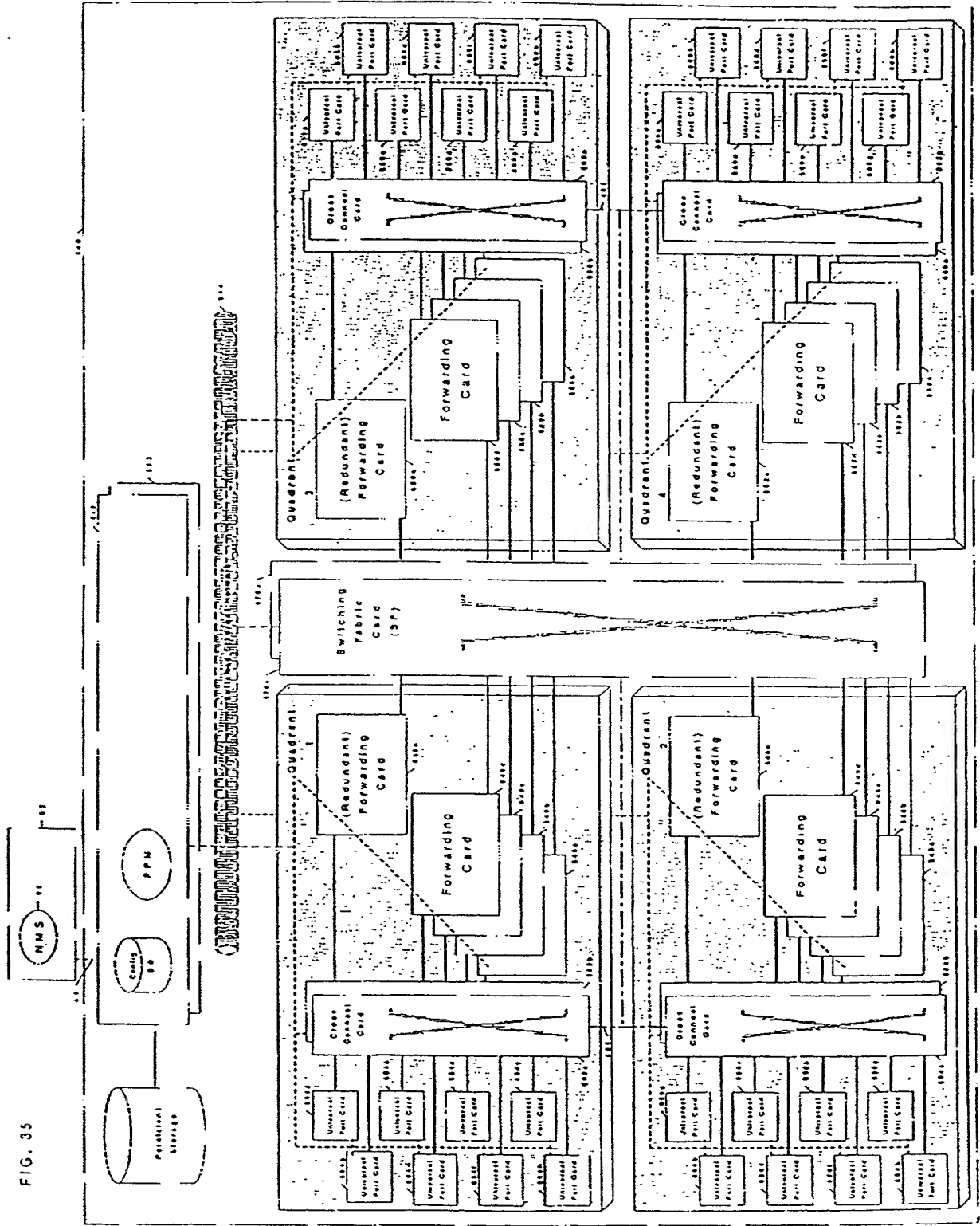


FIG. 36

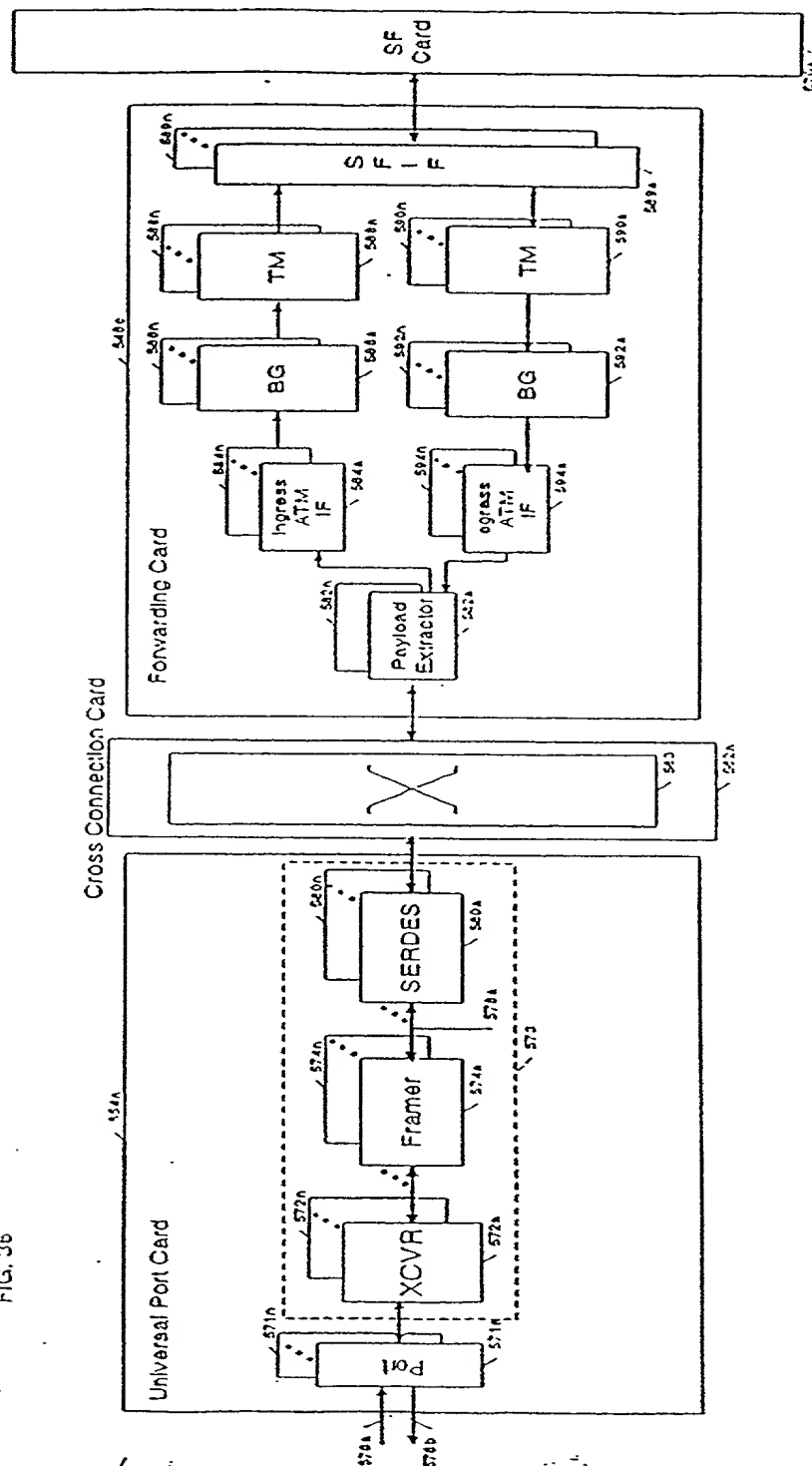


FIG. 37

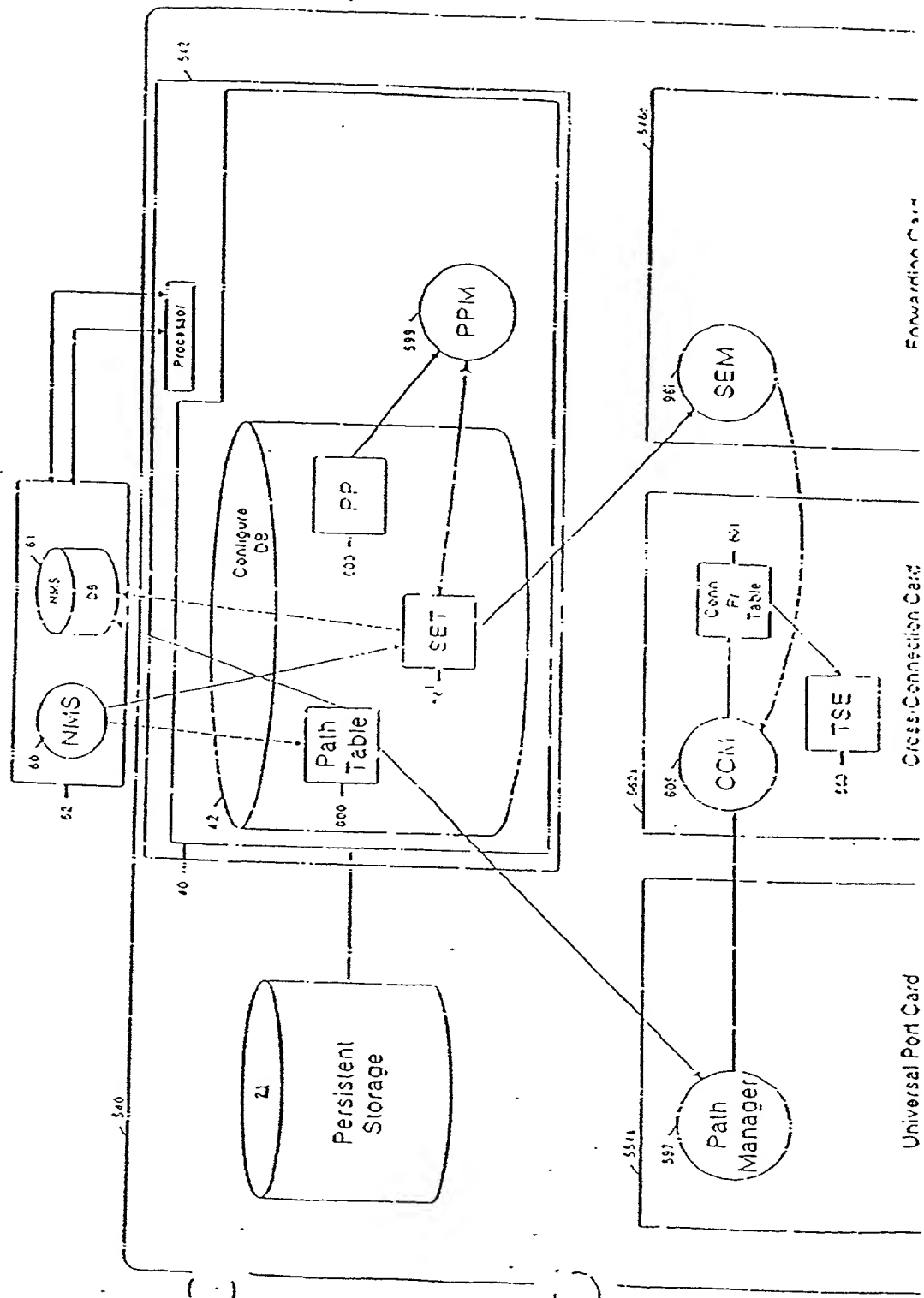


FIG. 38

Path Table 600

602

Path LID	UP Pon LID	Time Slot	# of Time Slots	...
1666	1231	4	3	
...

FIG. 39

Service End Point Table 76'

SE #	Q #	FC LID	FC Slice	FC Time Slot	Path PID	...
878	1				1666	
:	:	:	:	:	:	:
:	:	:	:	:	:	:
:	:	:	:	:	:	:

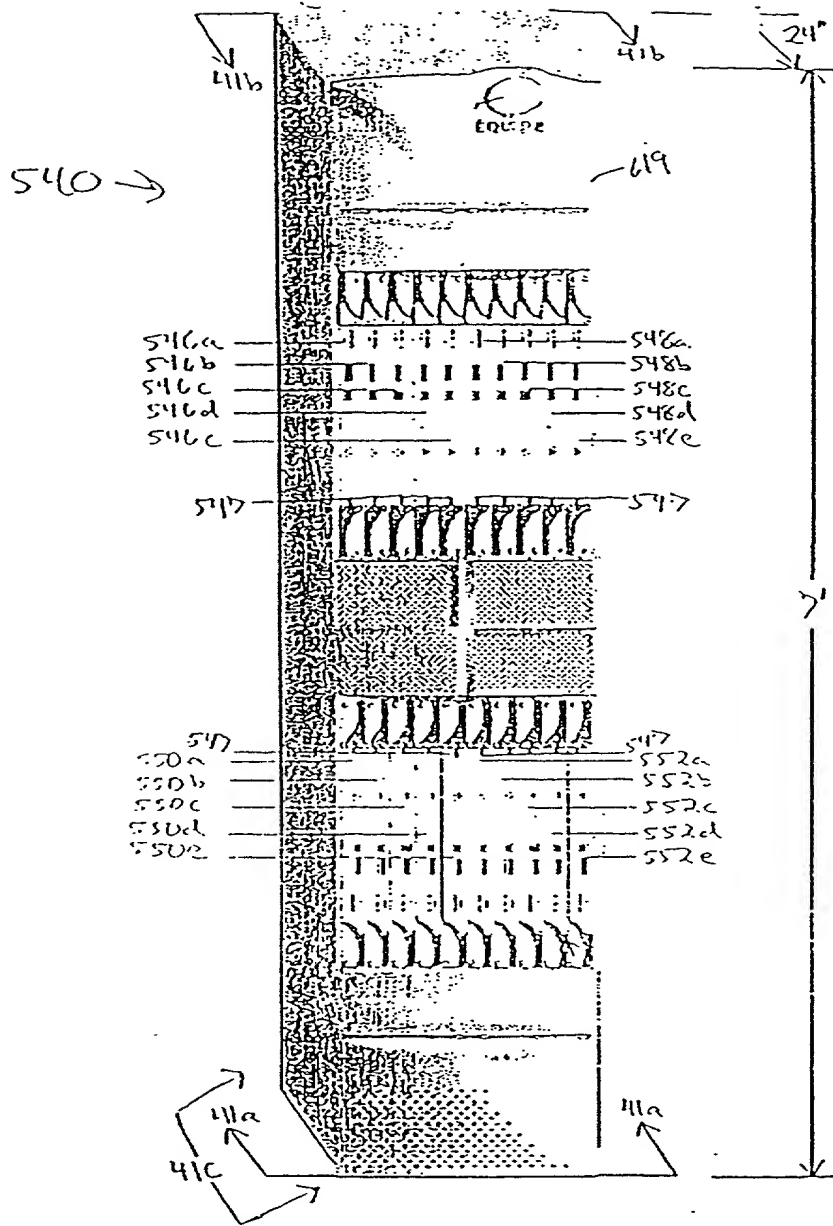


Fig. 40

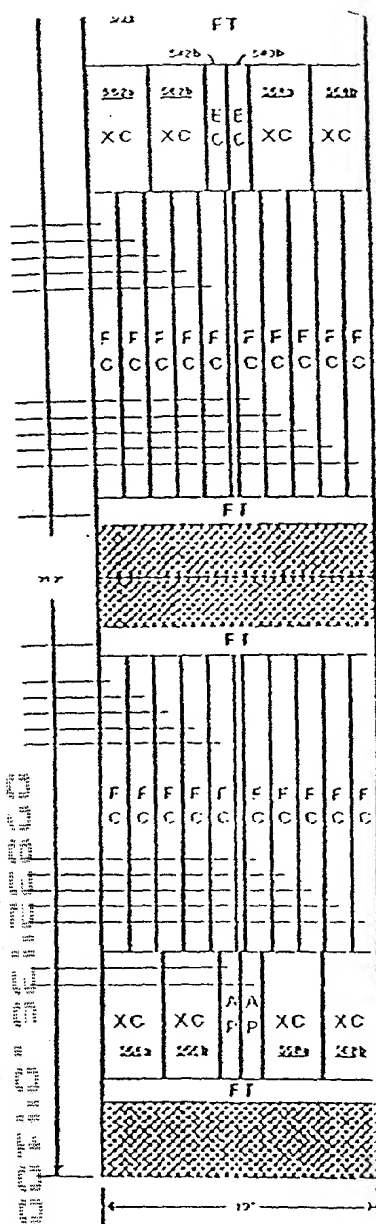


Fig. 41A

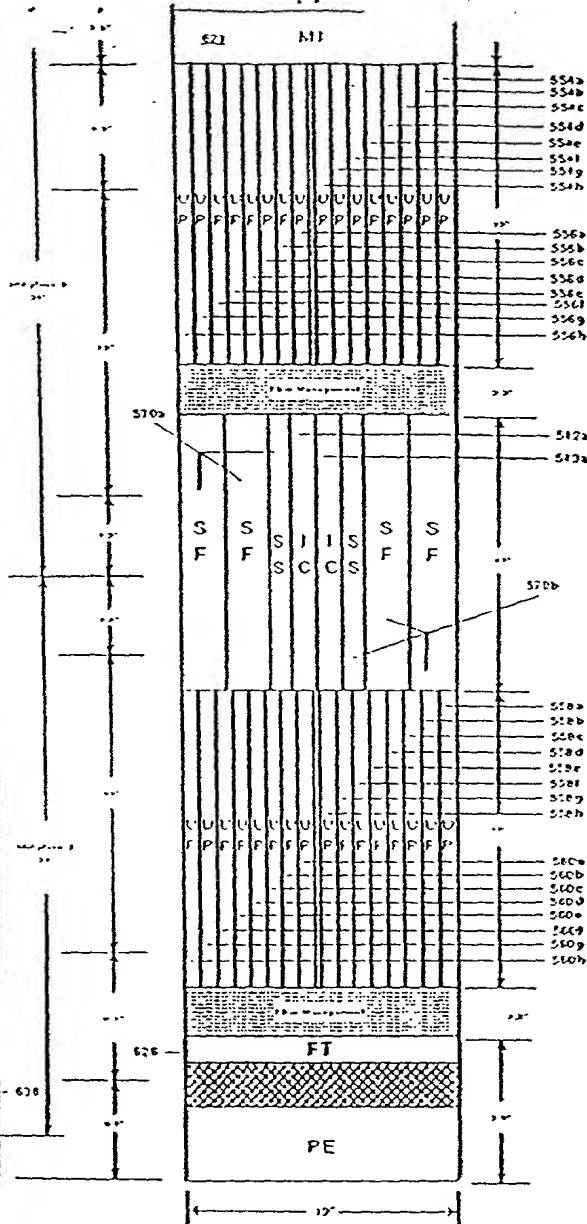


Fig. 41B

620

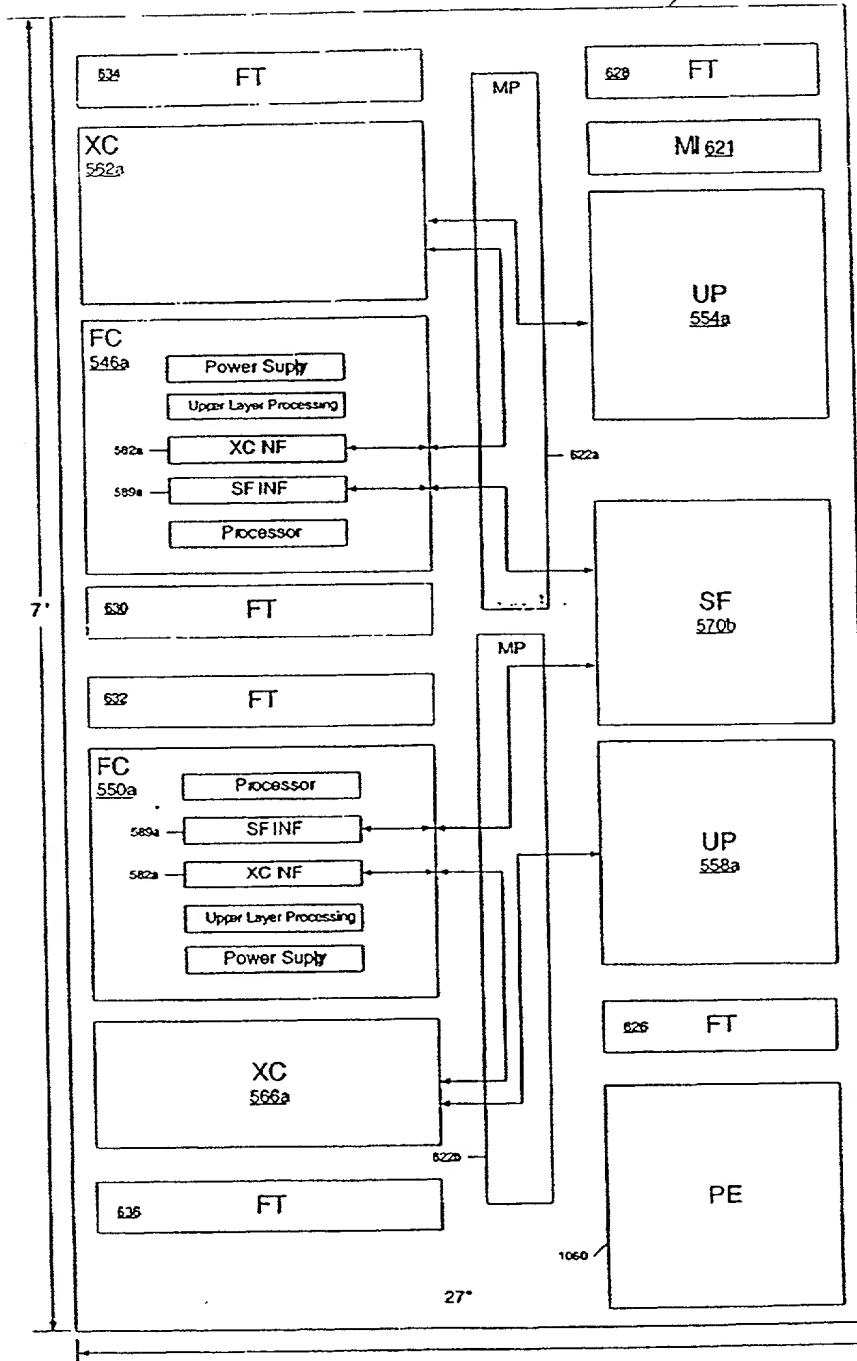


FIG. 42 is a schematic diagram of a system architecture. The diagram is divided into two main sections, 4220 and 4230, separated by a horizontal line. Section 4220 contains a top row of six boxes labeled XC, XC, EC, EC, XC, and XC. Below this row are two rows of vertical bars, each with ten bars. The bottom row of section 4220 contains three boxes labeled SF, IC, and SF. Section 4230 contains a top row of three boxes labeled SF, IC, and SF. Below this row are two rows of vertical bars, each with ten bars. The bottom row of section 4230 contains six boxes labeled XC, XC, AP, AP, XC, and XC. A horizontal line with a dimension of 100 is shown at the bottom of the diagram.

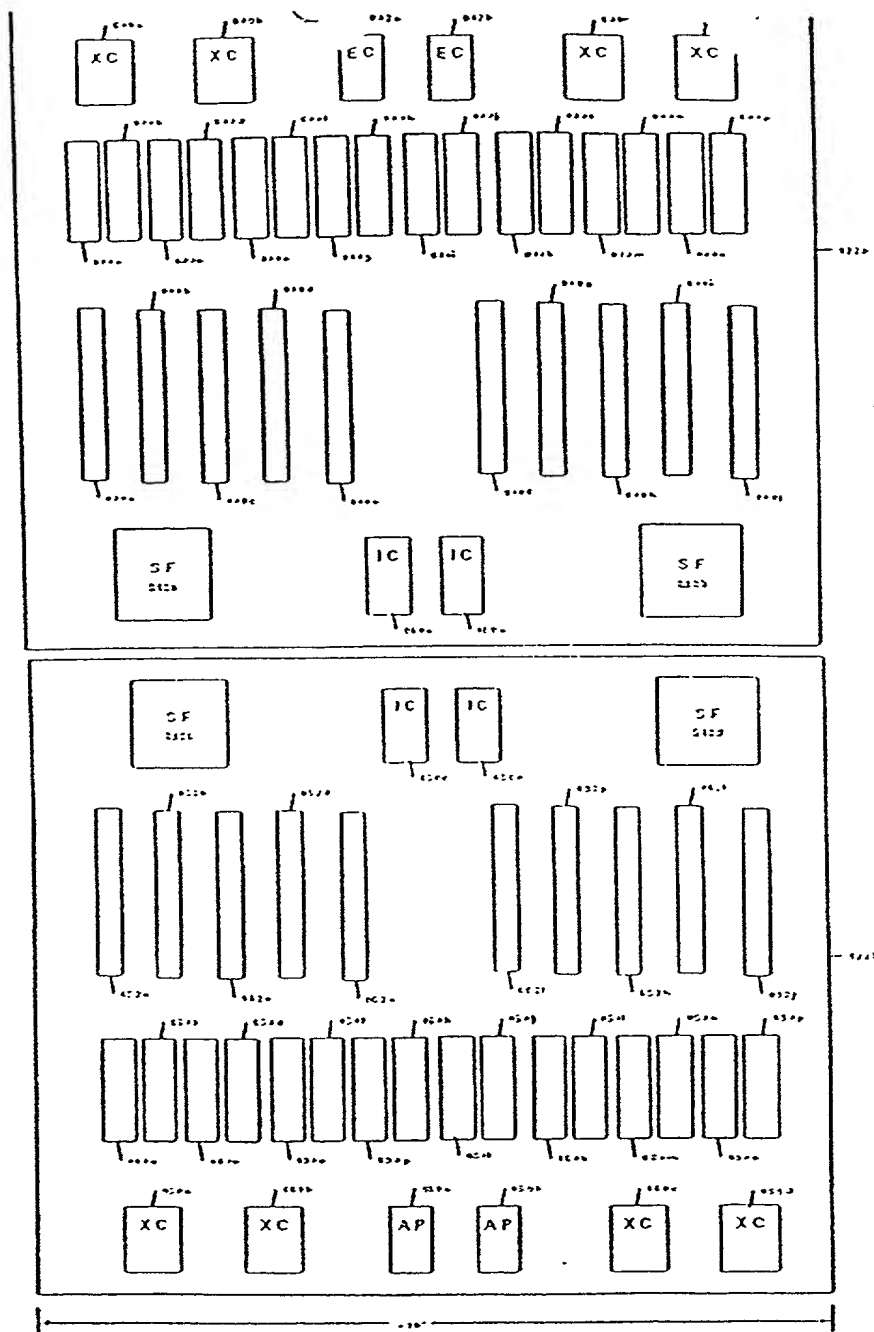
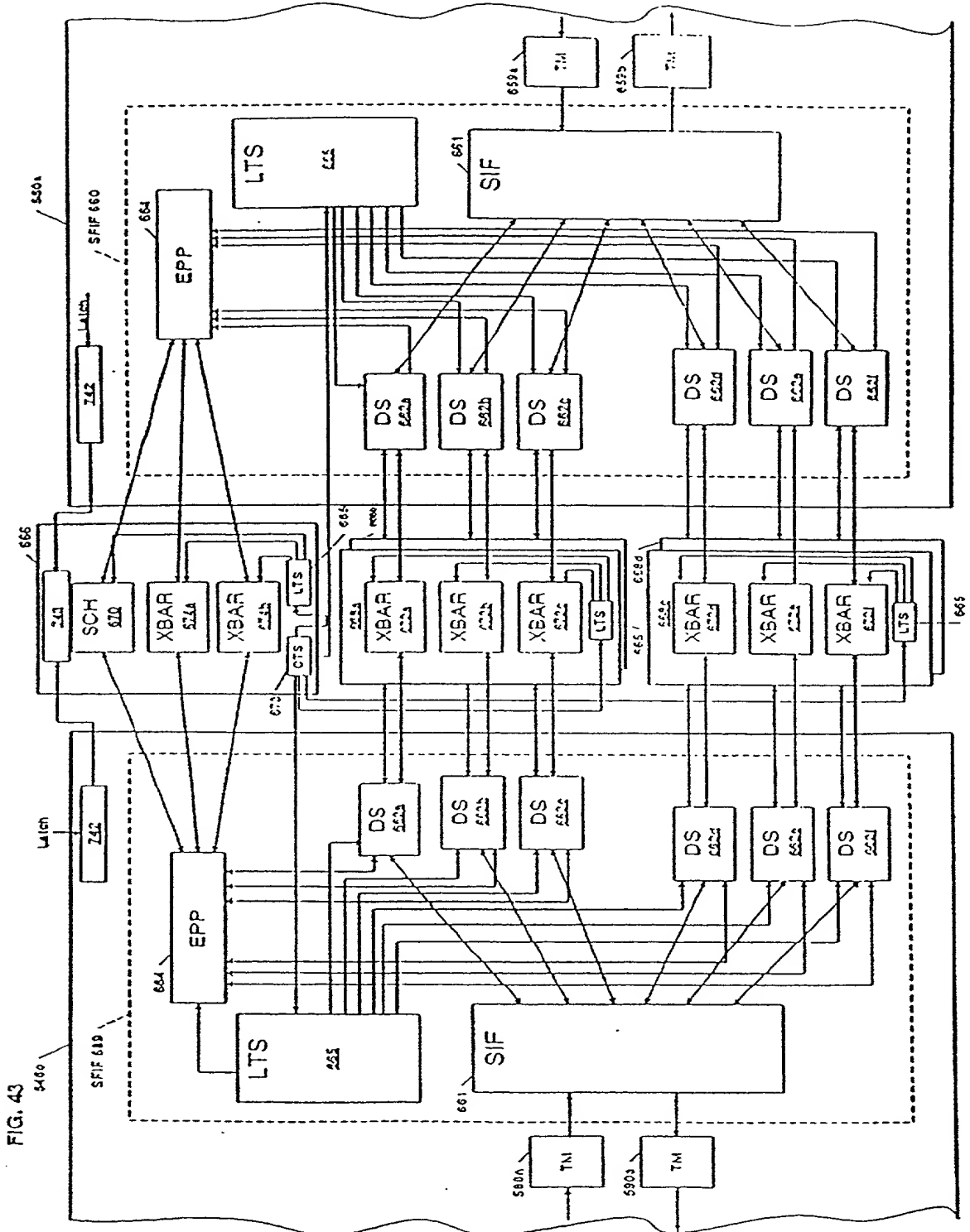


Fig. 42



ent By: Equipe Communications; 781 795 2031; Jul-6-00 4:26PM; Page 4

540

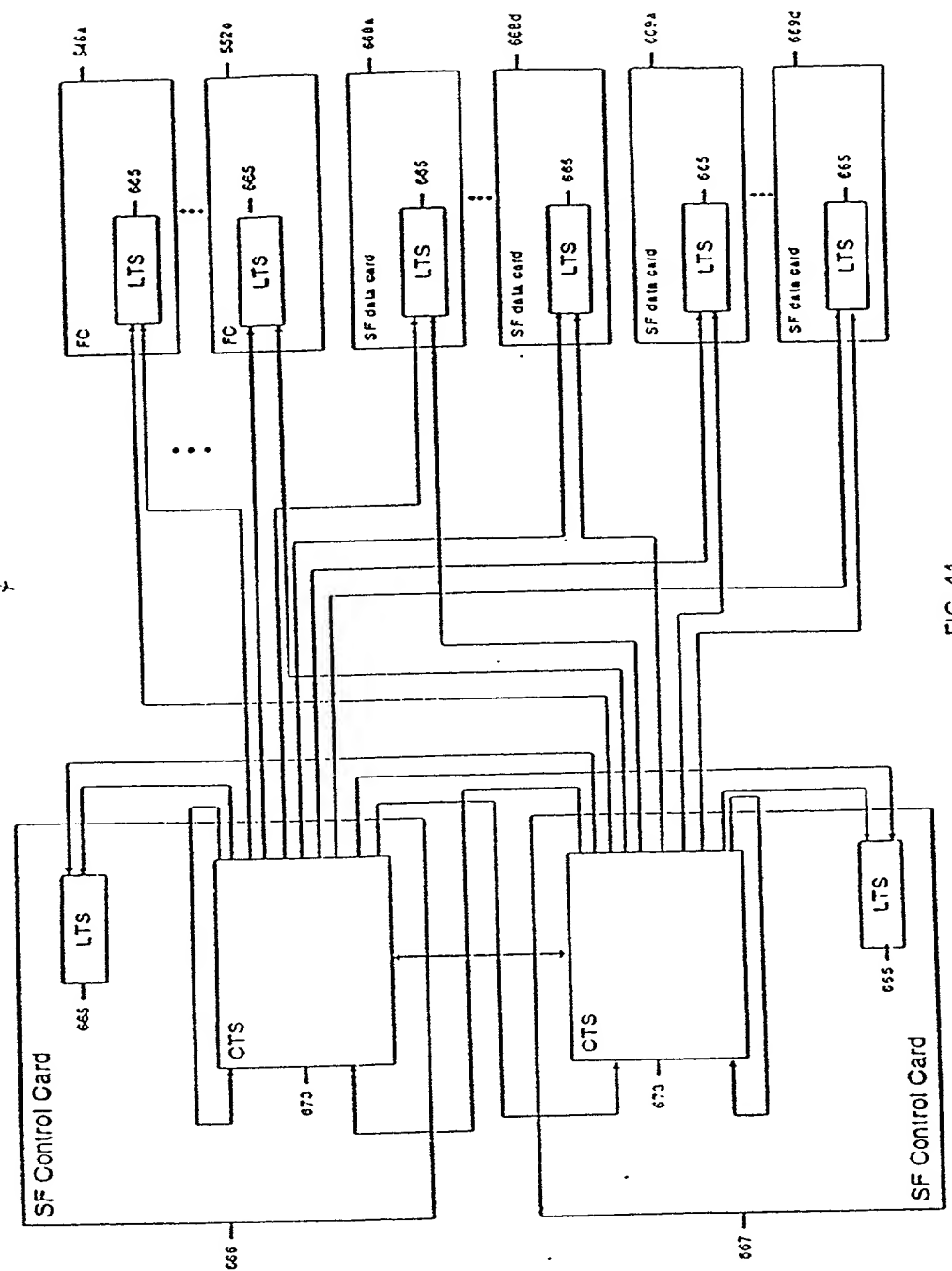
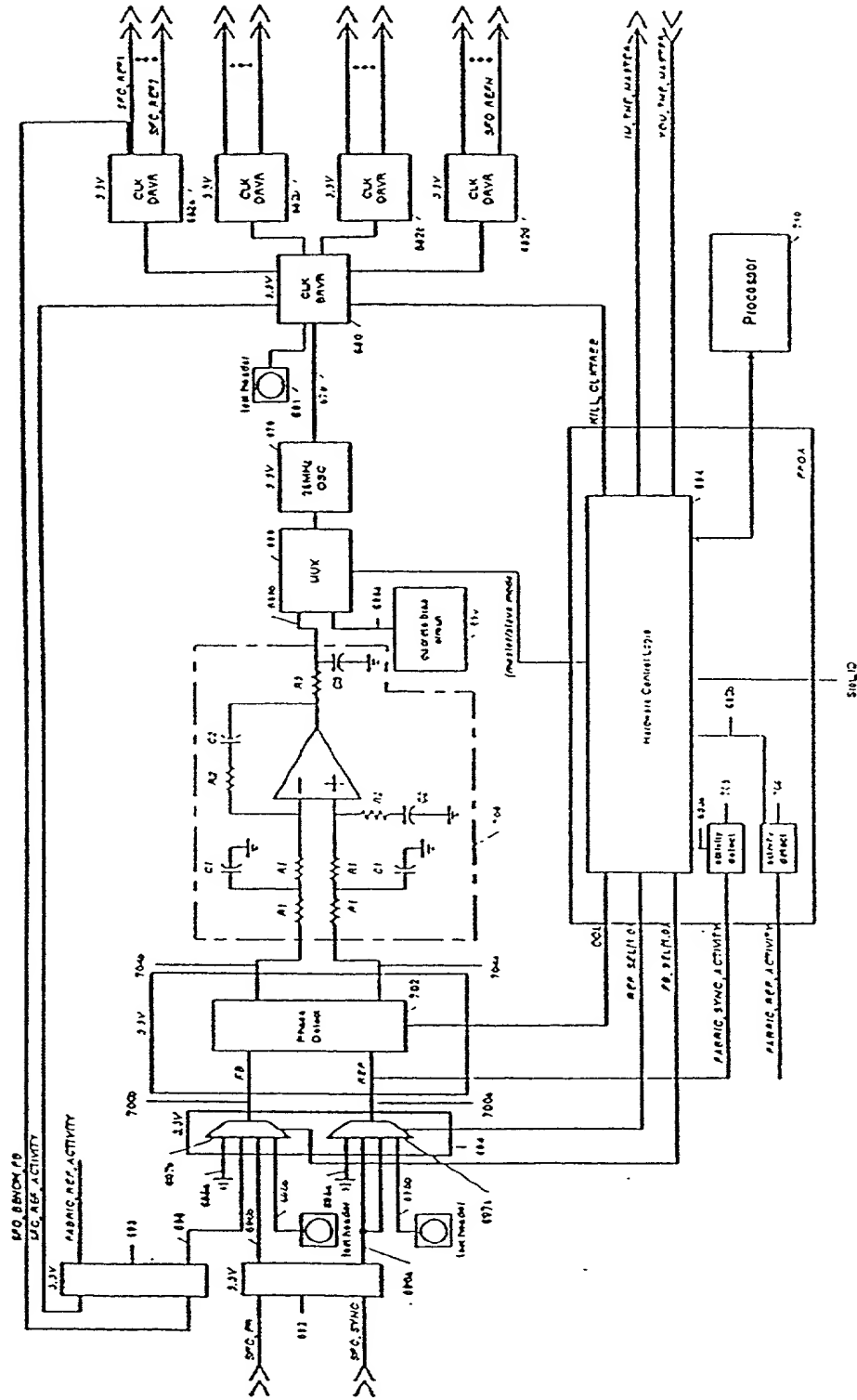


FIG. 44

FIG. 45

CTS 673



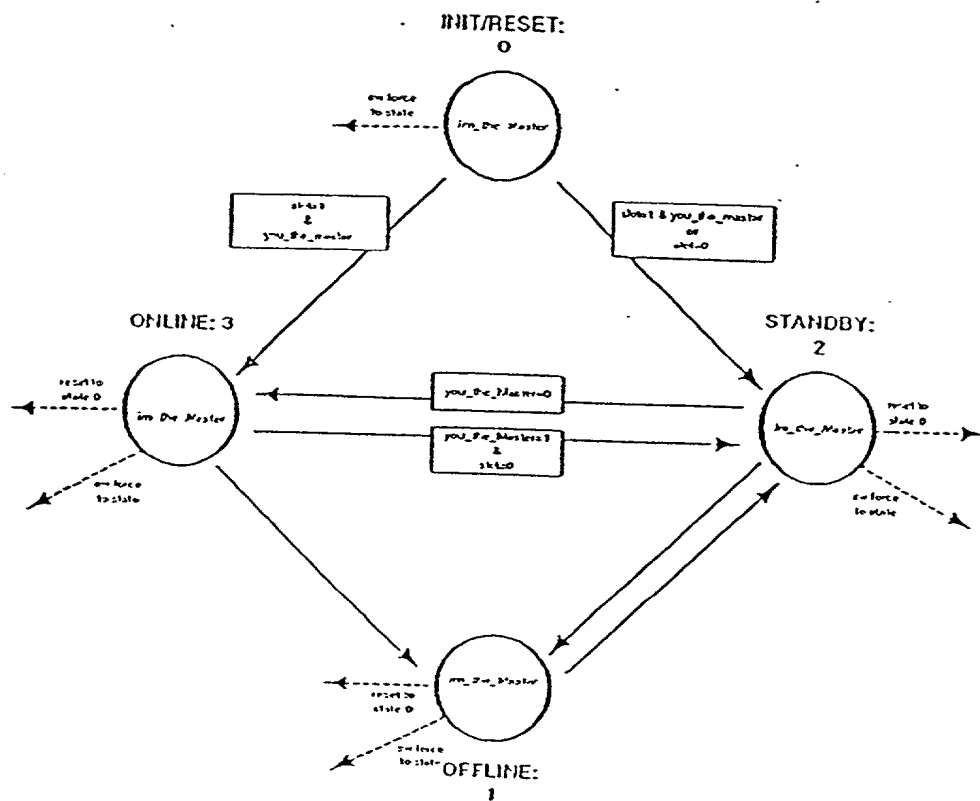


FIG. 46



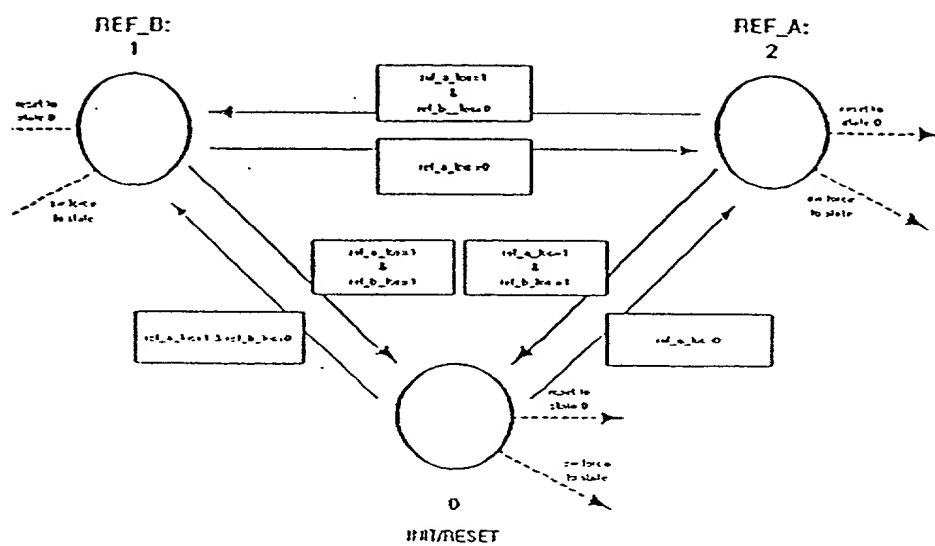


FIG. 48

4

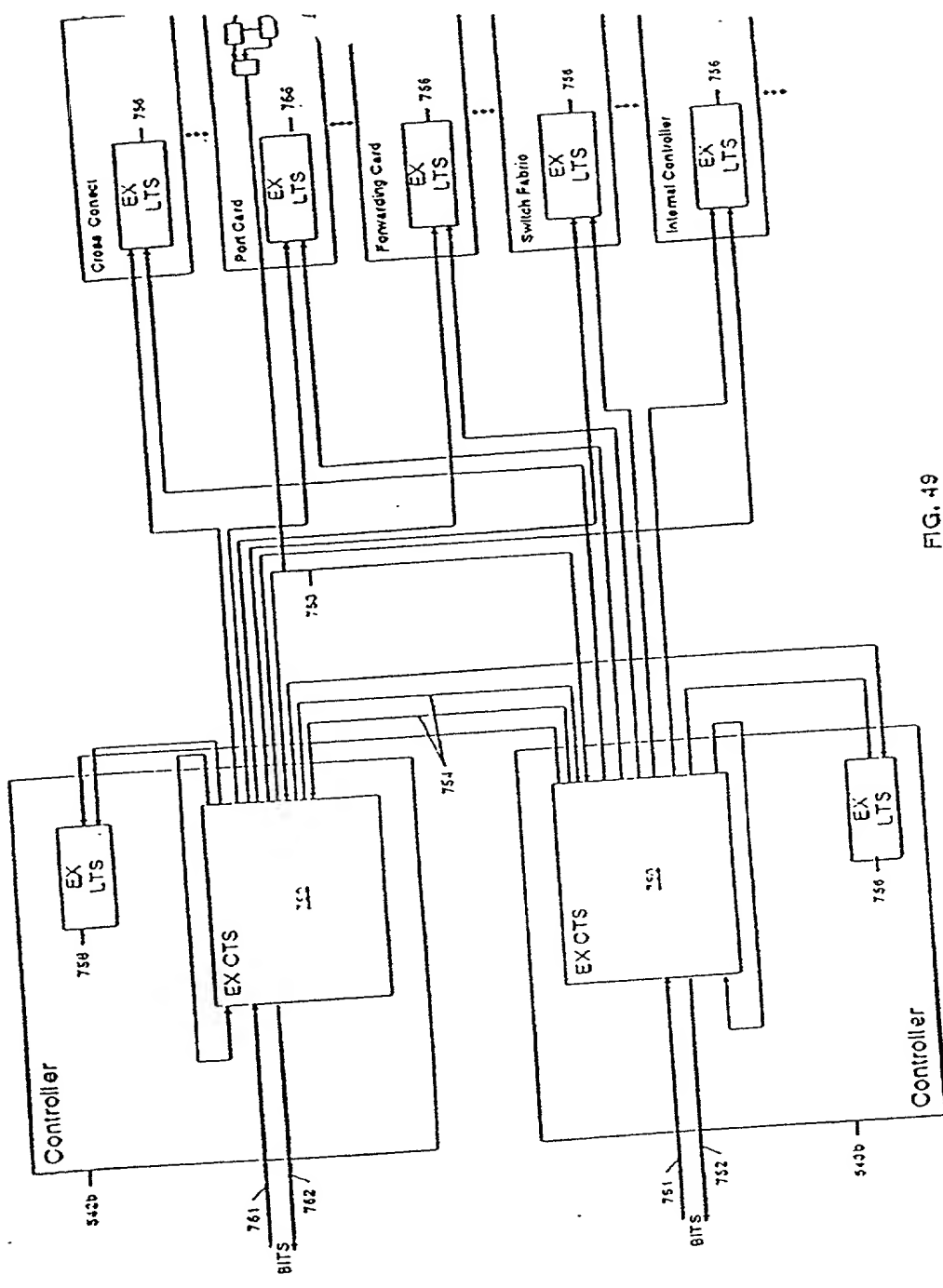
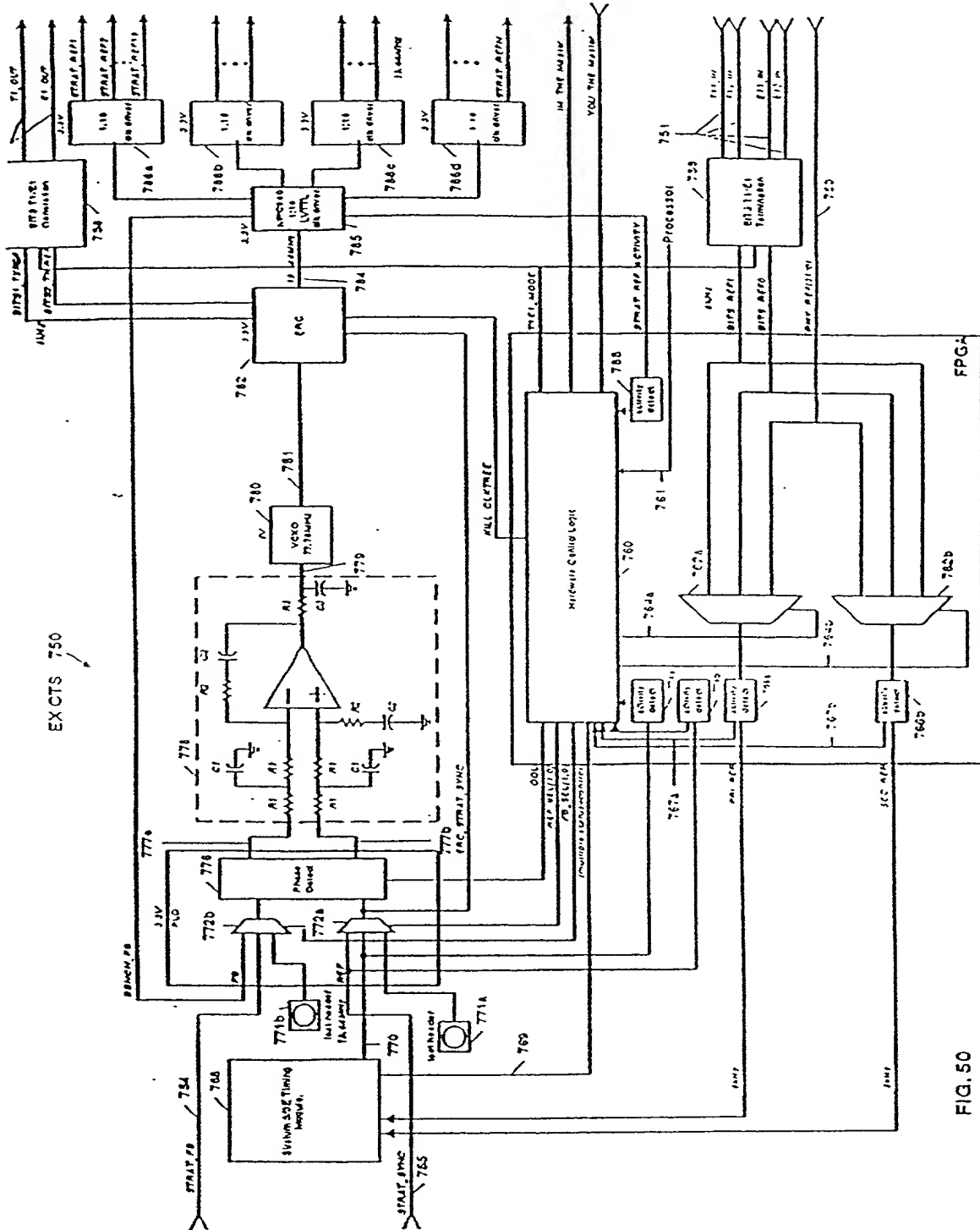


FIG. 49



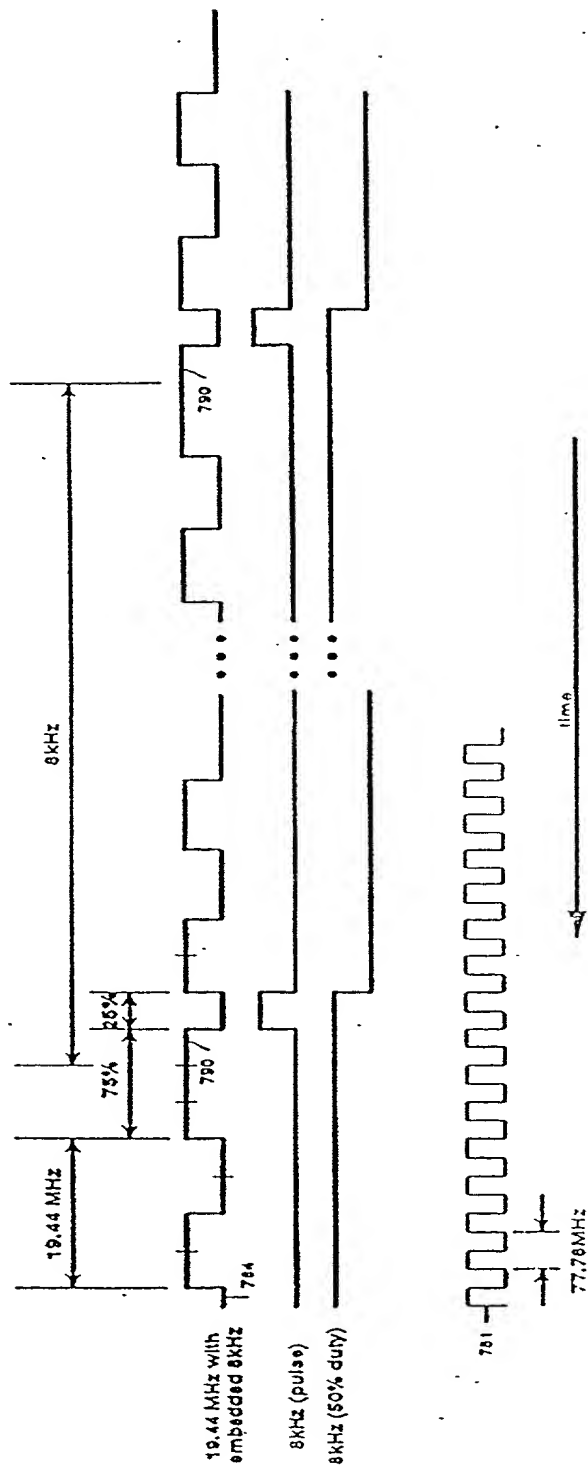


FIG. 51

792

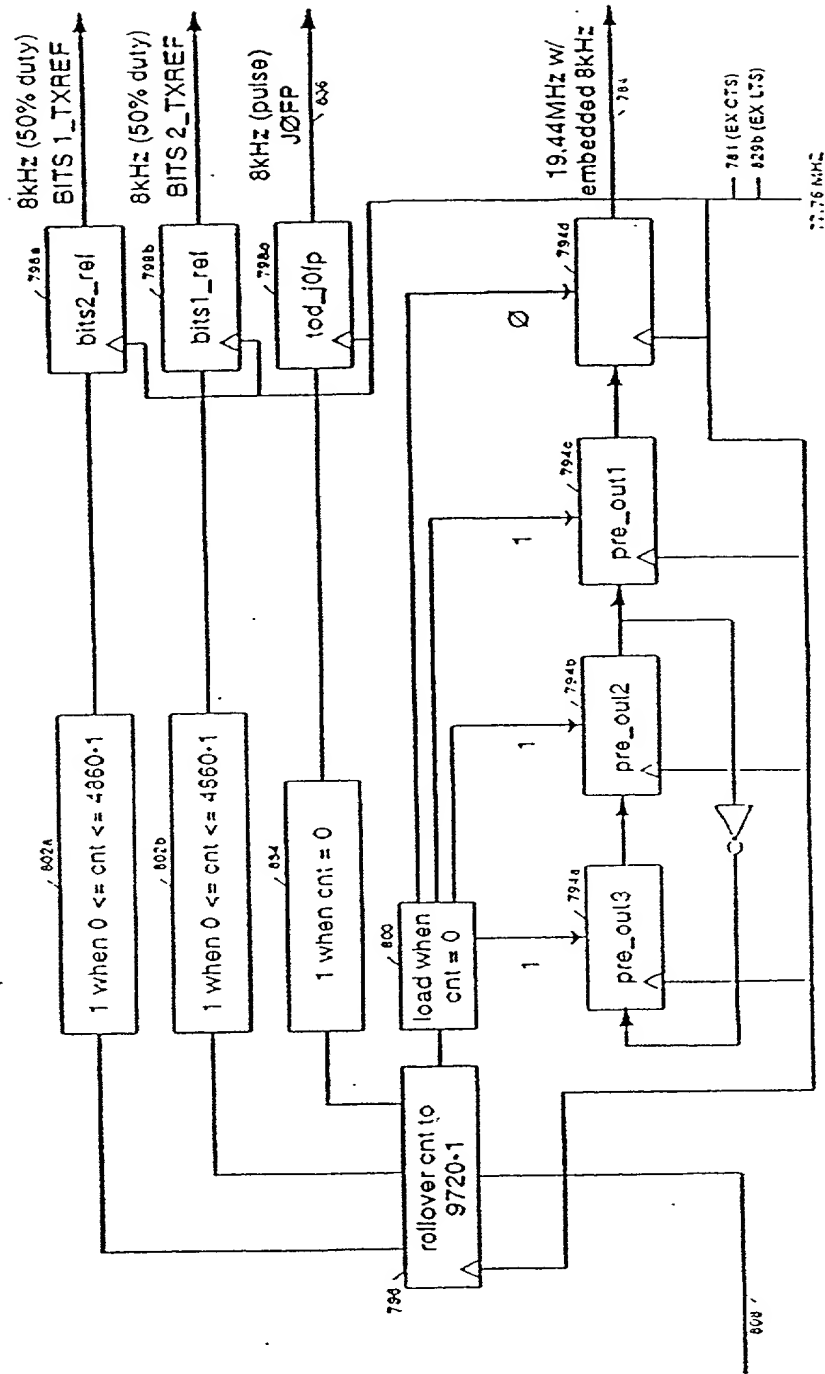
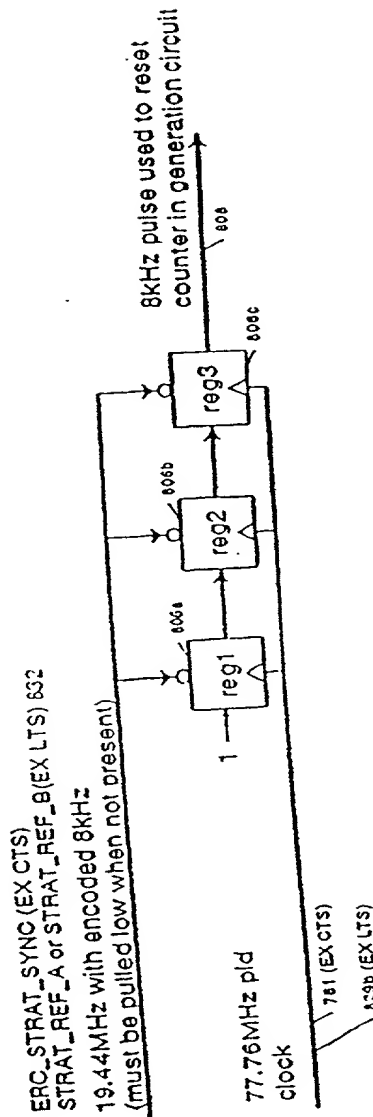


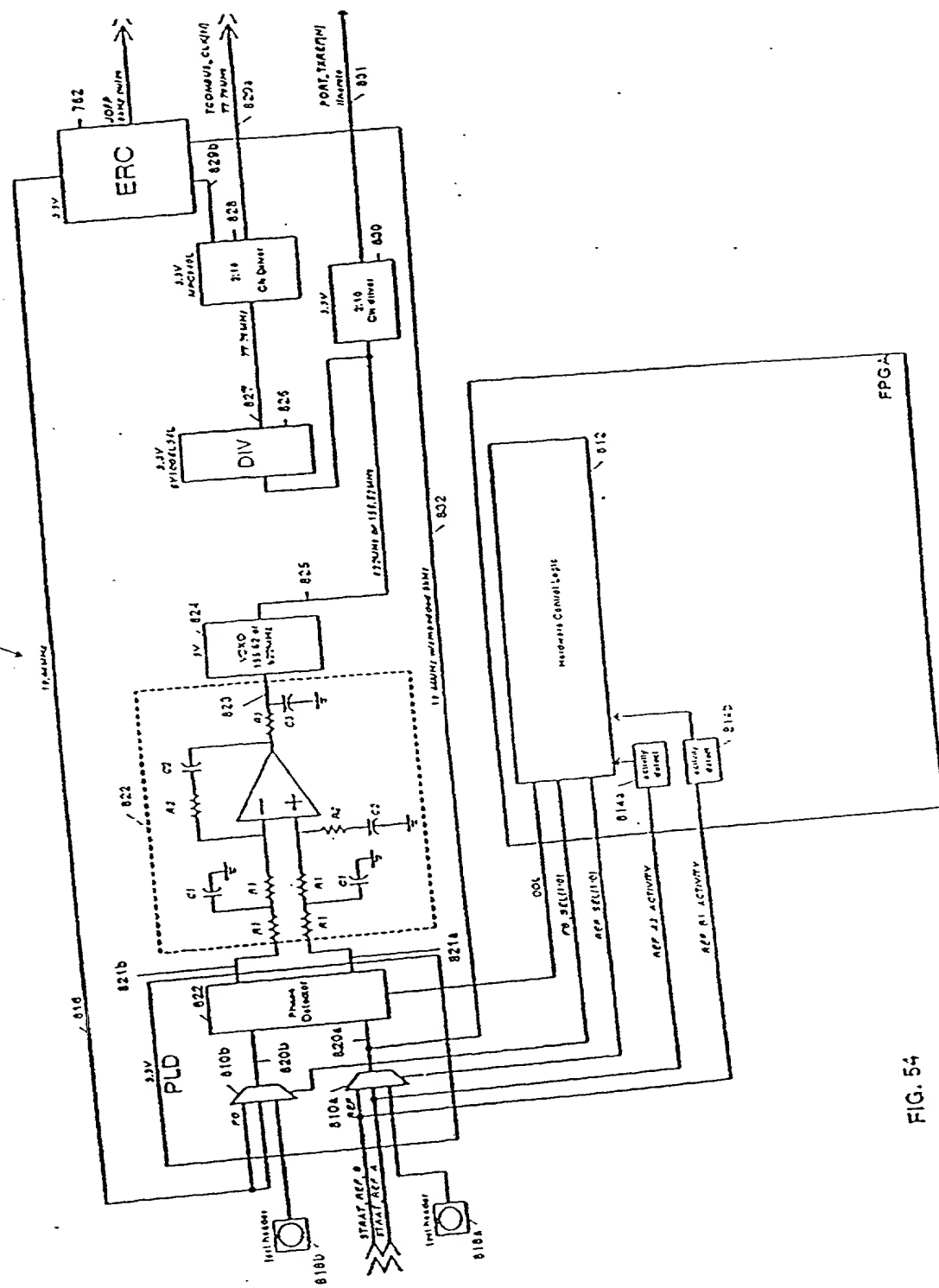
Fig. 52

804



Extractor

FIG. 53





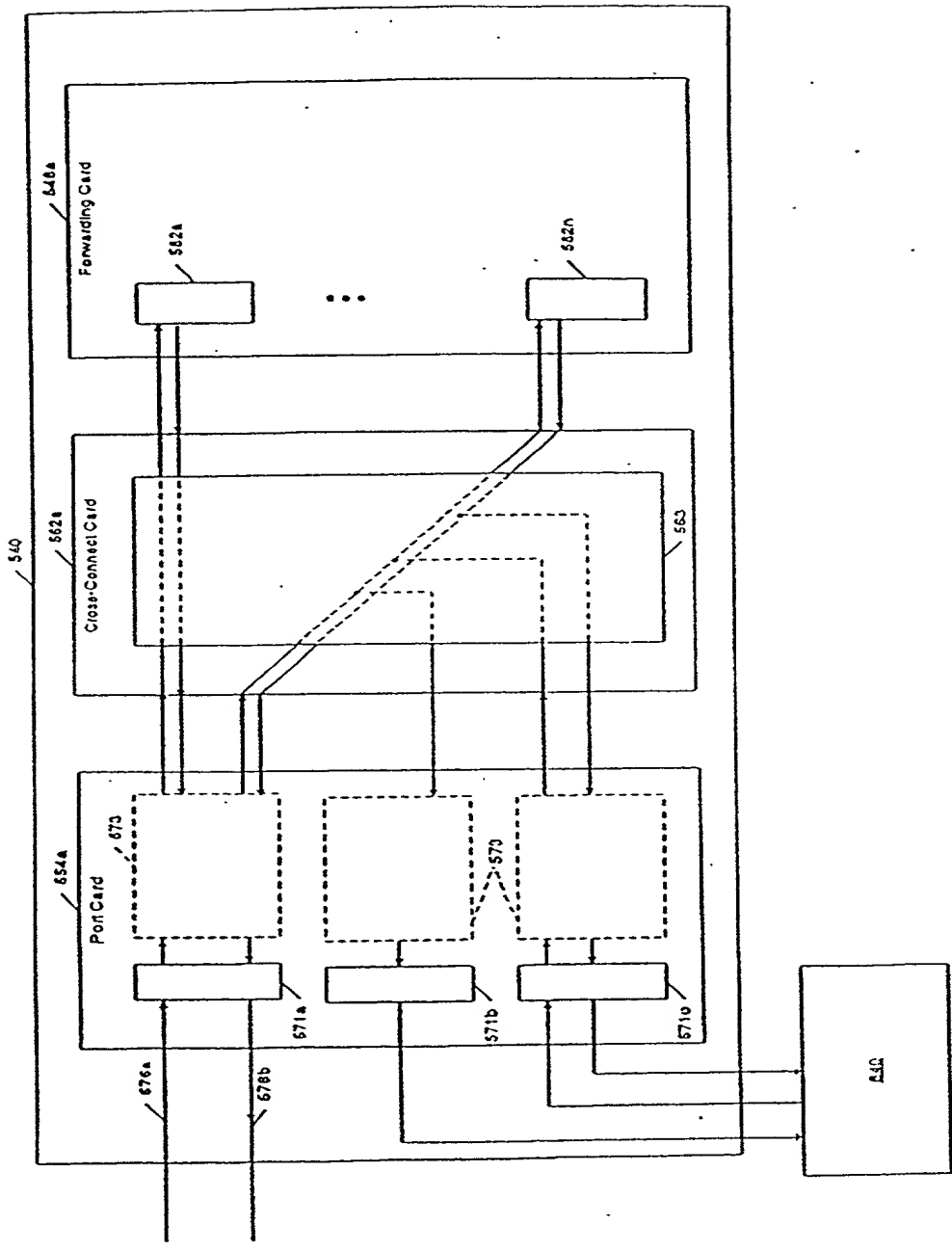


Fig. 56

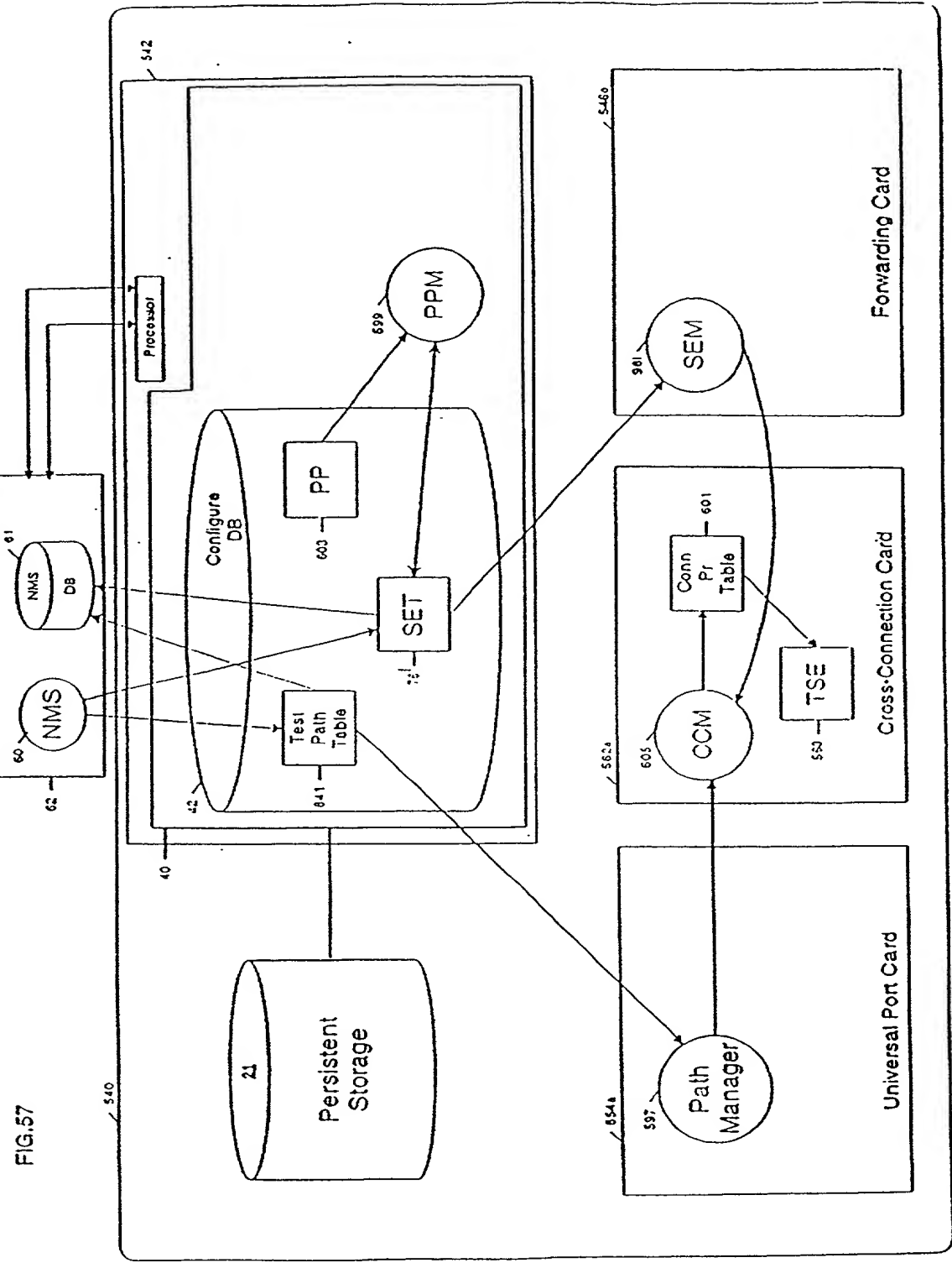


FIG. 58

Test Path Table 841

Path LID	UP Port LID	Time Slot	# of Time Slots	Monitor	Enable Port Receiver	...
1666	1232	4	3	Ingress	No	
1666	1233	4	3	Egress	No	
1666	1233	4	3	Ingress	Yes	
...

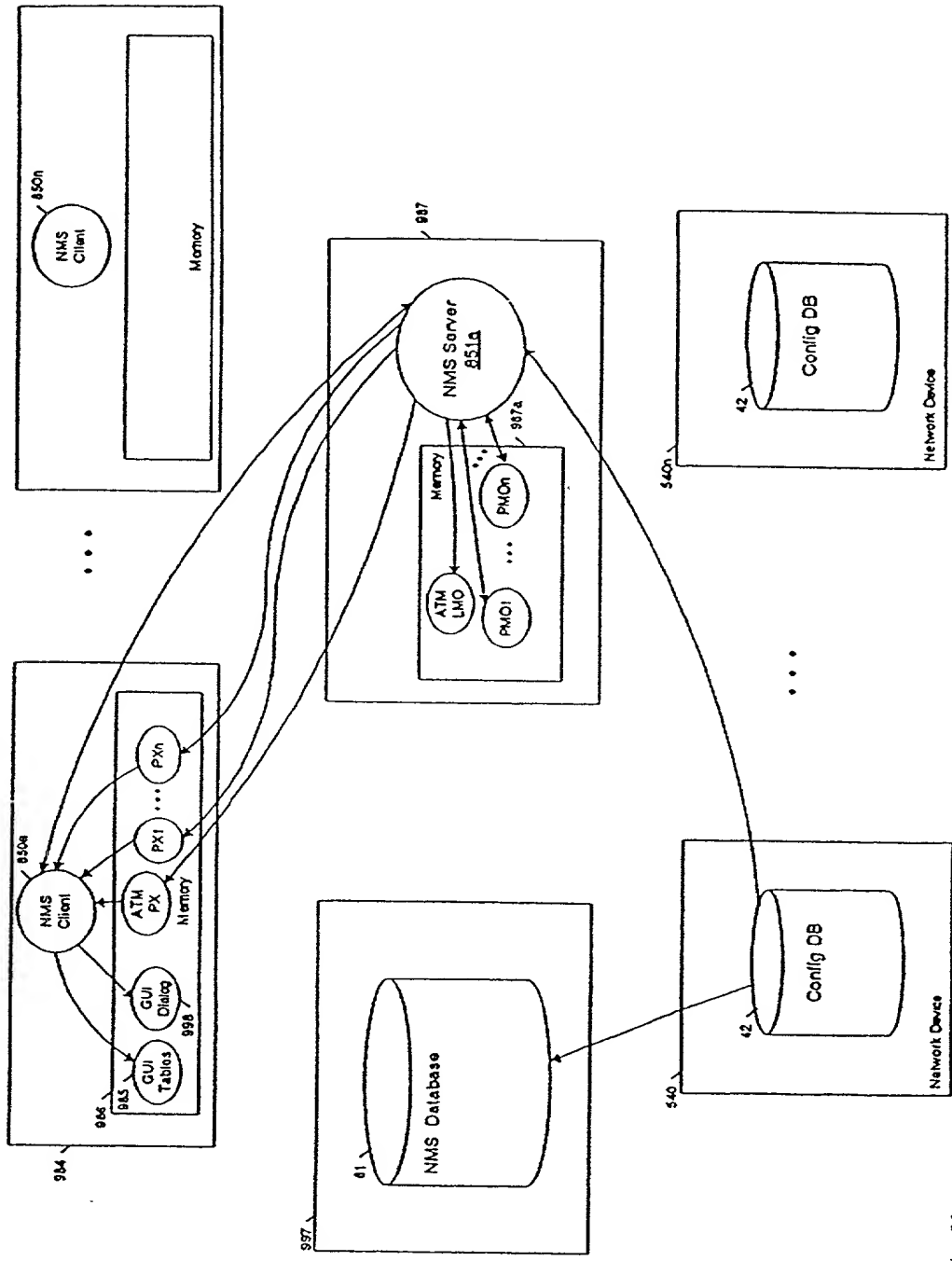


Fig. 59

Fig. 60a

Managed Device Table

PID	A1	...	An
1			

983b points to the first row. 983 points to the header row. 983a points to the first column.

Fig. 60b

Chassis Table

PID	A1	...	An	Managed Device PID
1				1
⋮	⋮	⋮	⋮	⋮

988b points to the first row. 988c points to the header row. 988 points to the last column. 988a points to the first column.

Fig. 60c

Shelf Table

PID	A1	...	An	Chassis PID
3				2
4				2
⋮	⋮	⋮	⋮	⋮
18				2

989a points to the first row. 989 points to the header row. 989b points to the last column.

Fig. 60d

Slot Table

PID	A1	...	An	Shelf PID
20				3
21				3
⋮	⋮	⋮	⋮	⋮
116				18

990a points to the first row. 990 points to the header row. 990b points to the last column. 990c points to the first column. 990d points to the last row.

CARD TABLE

47a PID	CWD TYPE	VERSION NO.	47b 47' SLOT PID	
			SLOT	PID
120	0XF002	3	20	
121	0XF002	4	21	
⋮	⋮	⋮	⋮	⋮
124	0X6002	1	24	
⋮	⋮	⋮	⋮	⋮
131	0XF002	1	31	
⋮	⋮	⋮	⋮	⋮

FIG. 60e

PORT TABLE

49a	49b			49c
	PID	PORT TYPE	VERSION NO.	CARD PID

	300	00620	1	20
	301	00620	1	20
	302	00620	1	20
	303	00620	1	20
	304	00820	1	20
	⋮	⋮	⋮	⋮
	400	00620	1	39
	⋮	⋮	⋮	⋮

FIG. 60f

FIG. 60g

SONET Path Table 600

600a	Path LID	Port PID	Time Slot	# of Time Slots	...
	901	304	4	3	
	:	:	:	:	:
	:	:	:	:	:
	:	:	:	:	:

FIG. 60h

Service EndPoint Table 76 "

76a		76c		76d		76e	76b
SE LID	Q #	FC PID	FC Slice PID	FC Time Slot	Path LID	...	
3000					901		
:	:	:	:	:	:	:	:
:	:	:	:	:	:	:	:

Fig. 60i

ATM IF Table

114a		114b	114''
ATM IF LID	ATM Group LID	SE LID	...
5054		3000	...
⋮	⋮	⋮	...

Fig. 60j

Virtual ATM IF Table

LID	A1	...	An	ATM IF LID
7489				5054
⋮	⋮	⋮	⋮	⋮

Fig. 60k

Virtual Connection Table

LID	A1	...	An	Vir. ATM IF LID
⋮	⋮	⋮	⋮	⋮

Fig. 60L

Virtual Link Table

LID	A1	...	An	Vir. Conn. LID	Cross-Conn. LID
⋮	⋮	⋮	⋮	⋮	⋮

Fig. 60m

Cross-Connect Table

LID	A1	...	An	Vir. Link1 LID	Vir. Link2 LID
⋮	⋮	⋮	⋮	⋮	⋮

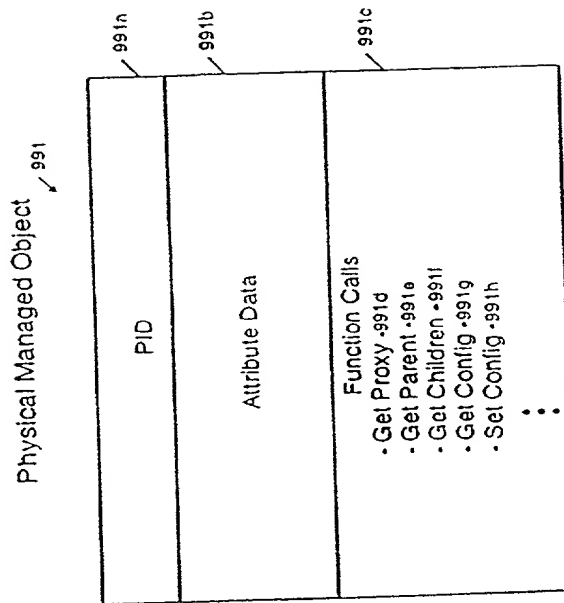


Fig. 61a

The diagram shows a Proxy object structure. It is a vertical rectangle divided into three horizontal sections. The top section is labeled 'PID' and has a reference line pointing to it labeled '992a'. The middle section is labeled 'Attribute Data' and has a reference line pointing to it labeled '992b'. The bottom section is labeled 'Function Calls' and has a reference line pointing to it labeled '992c'. Inside the 'Function Calls' section, there is a list of function pointers: '. Get Parent -992e', '. Get Children -992f', '. Get Config -992g', and '. Set Config -992h'. To the right of this list are two vertical dots '⋮'.

Proxy	PID	Attribute Data	Function Calls
			<ul style="list-style-type: none"> . Get Parent -992e . Get Children -992f . Get Config -992g . Set Config -992h

Fig. 61b

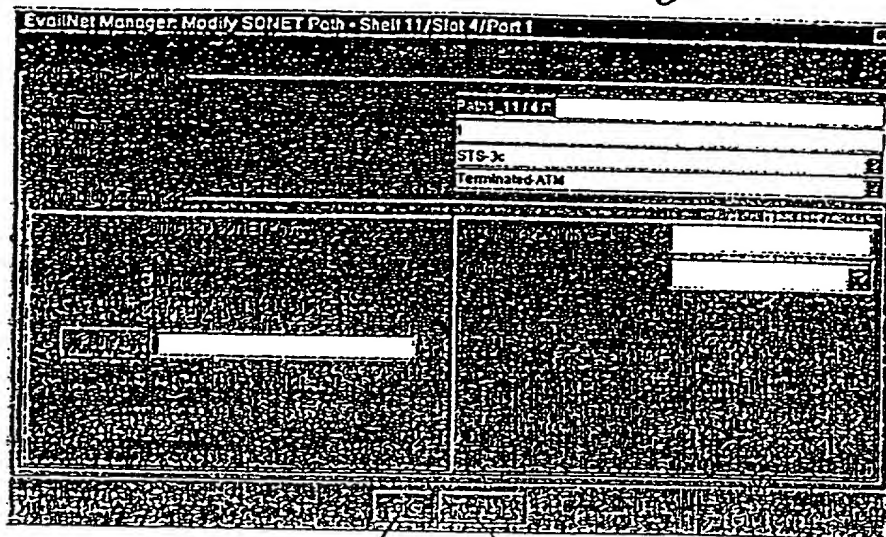
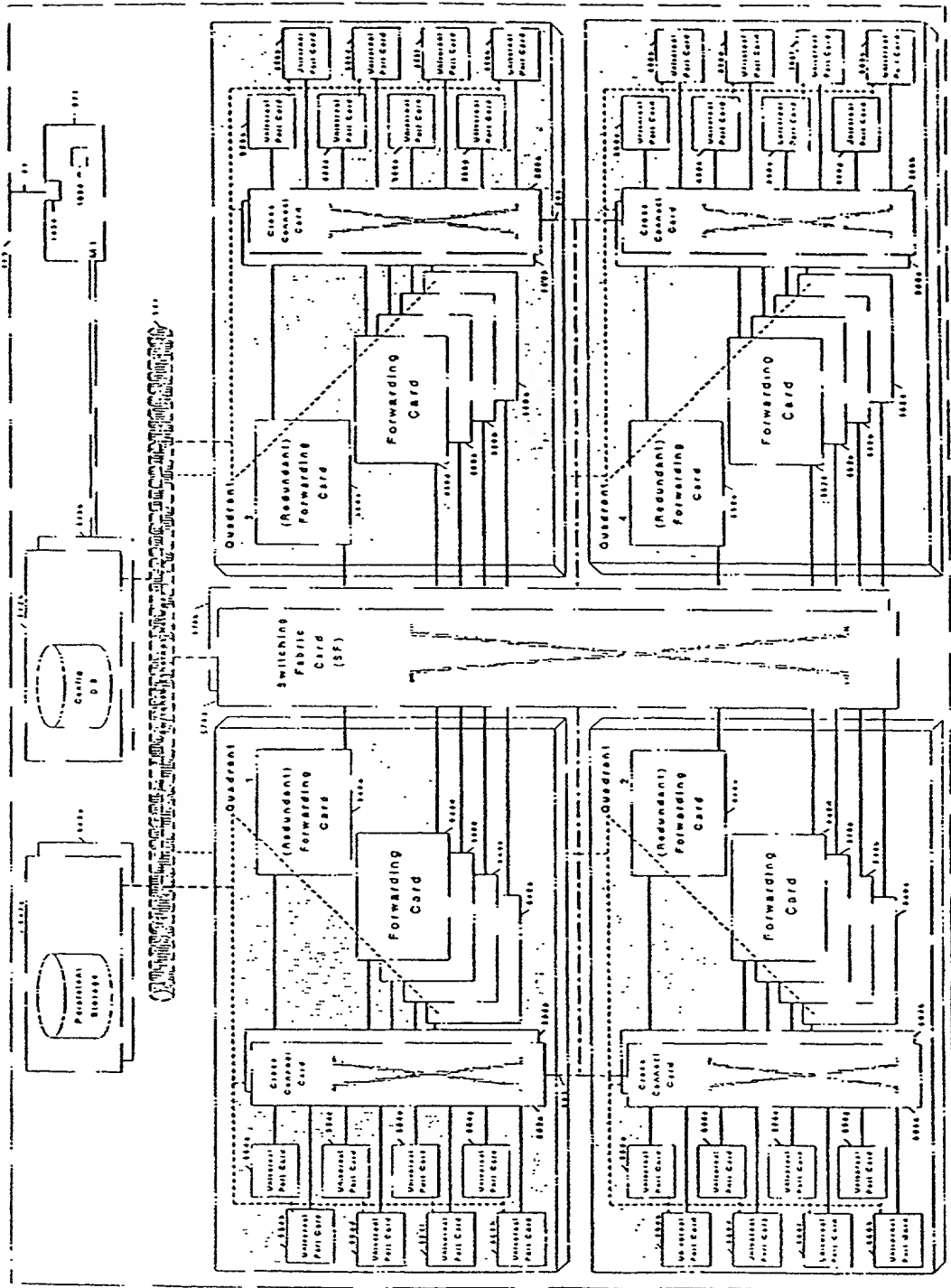


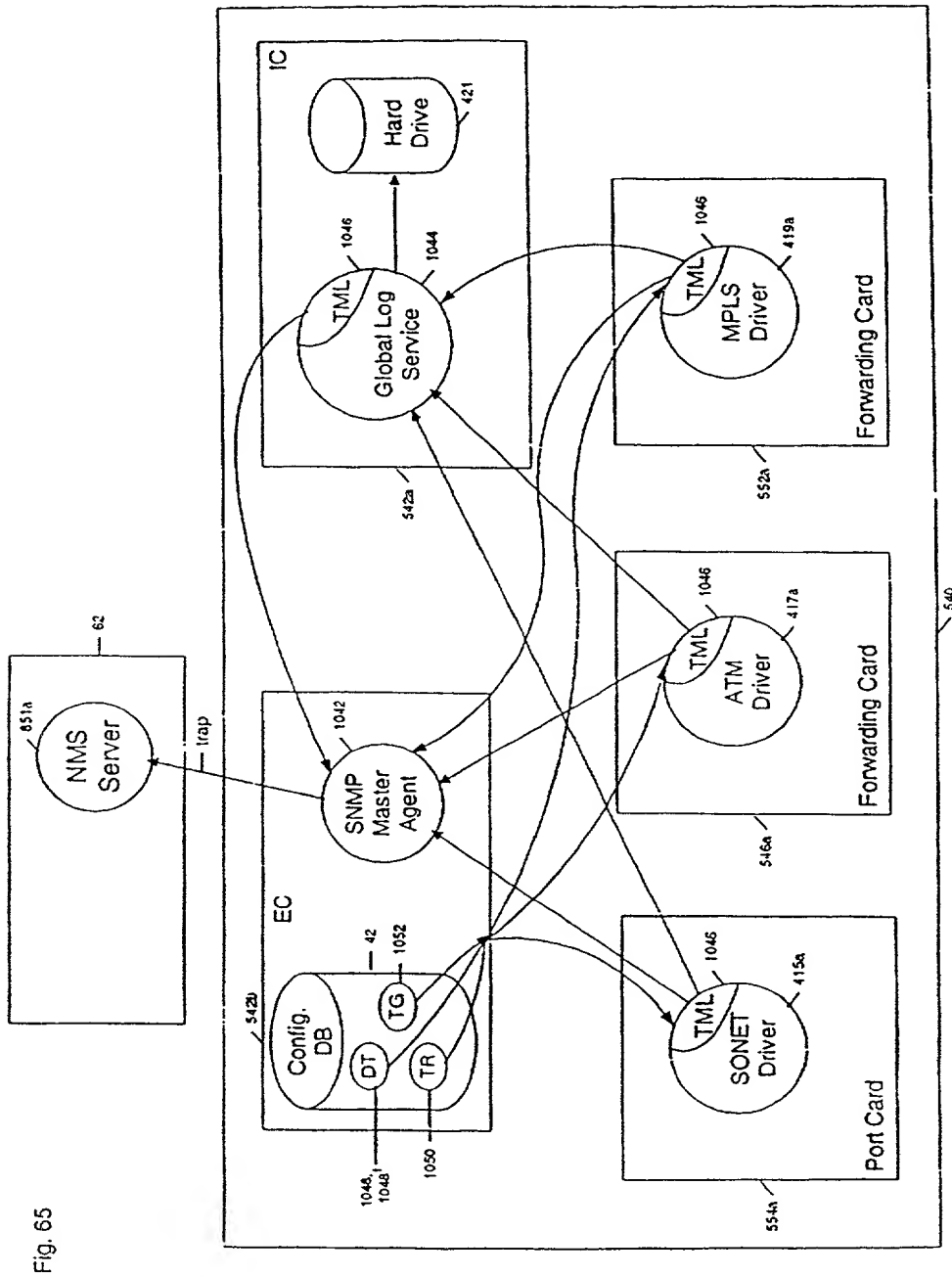
Fig. 62

FIG. 63



Administration Managed Device Table

[illegible]



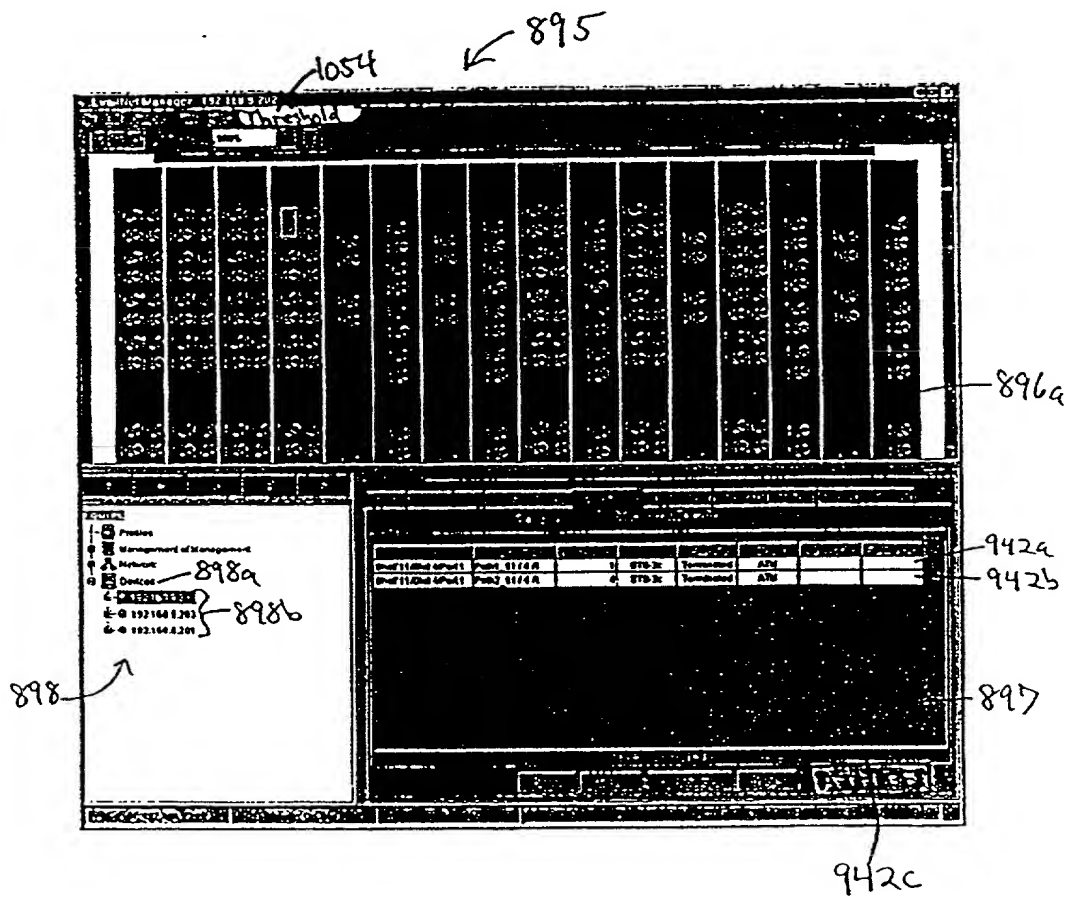
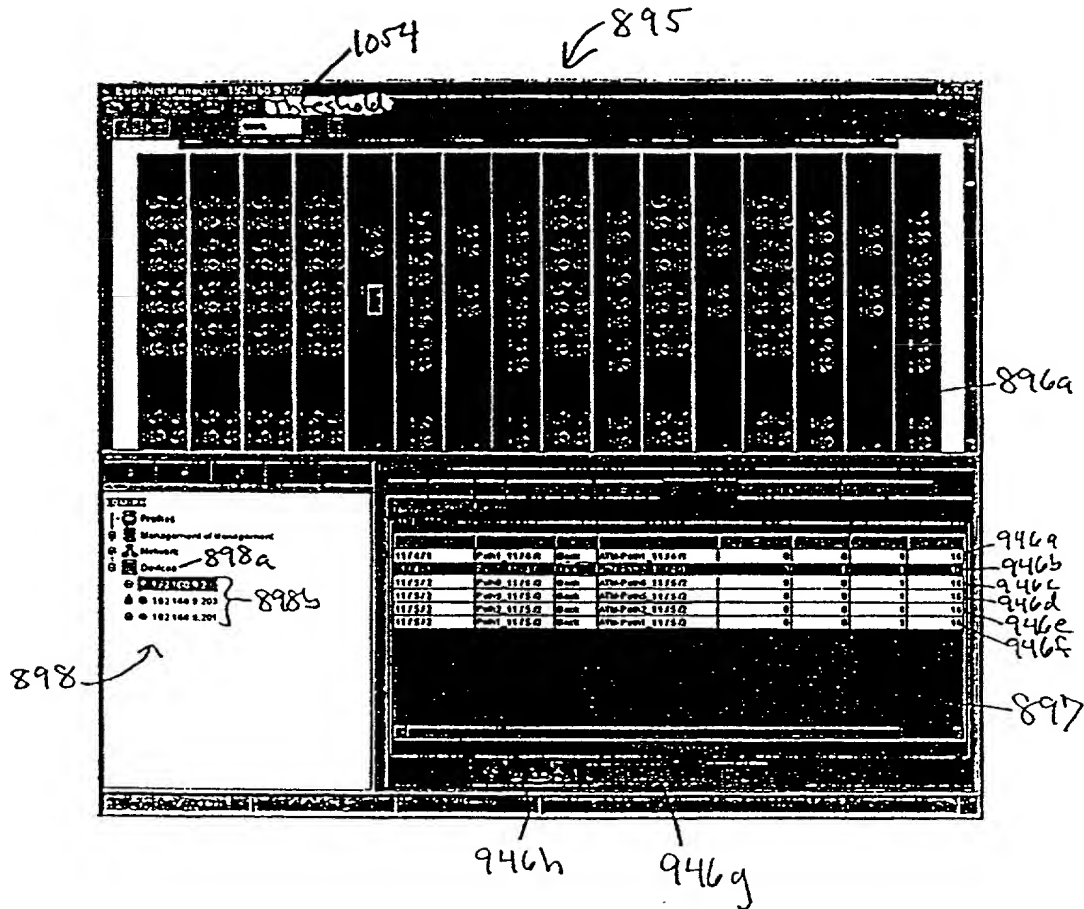
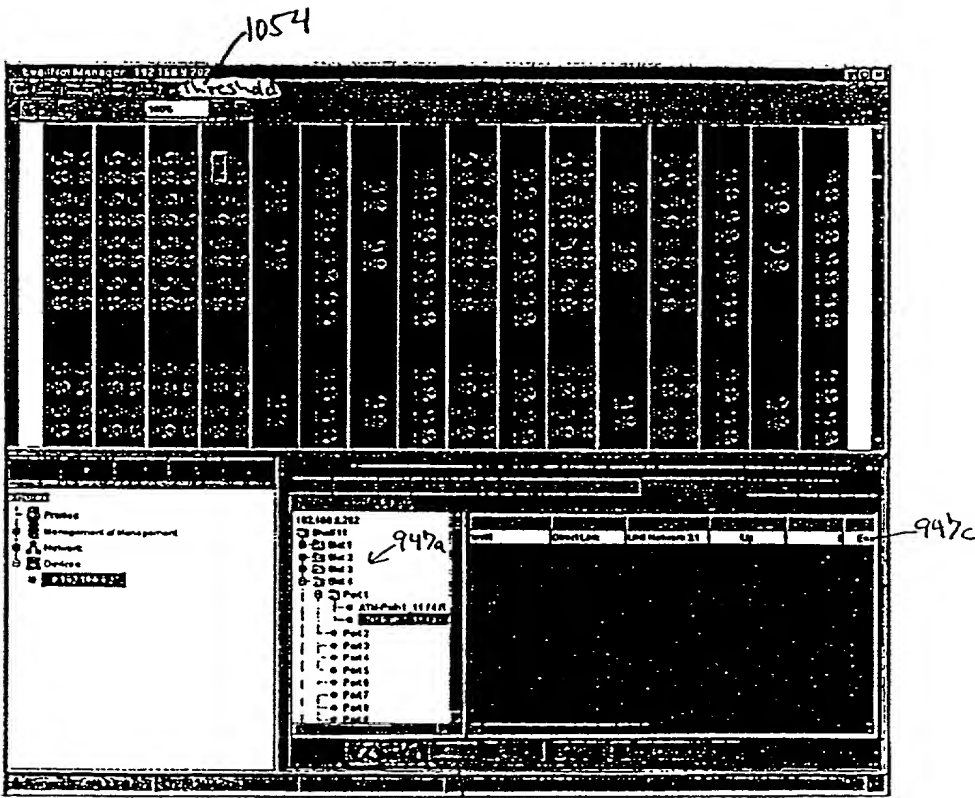


Fig. 66a





947b

Fig. 66c

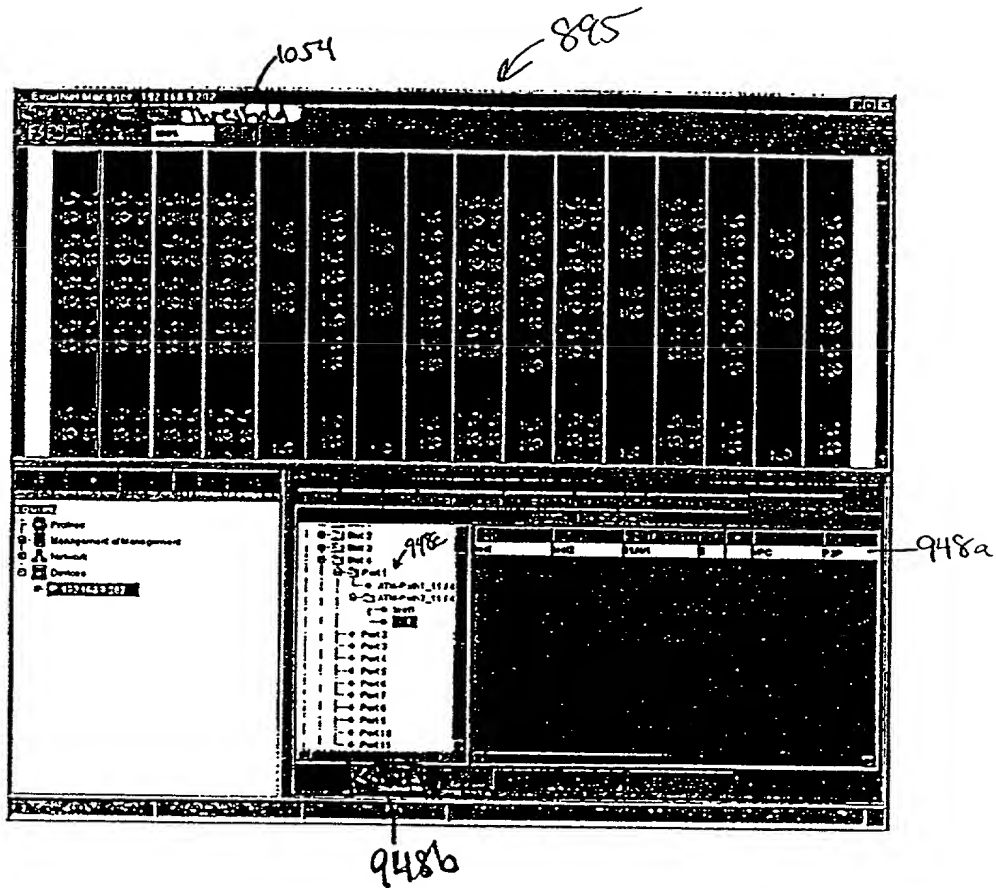


Fig. 66d

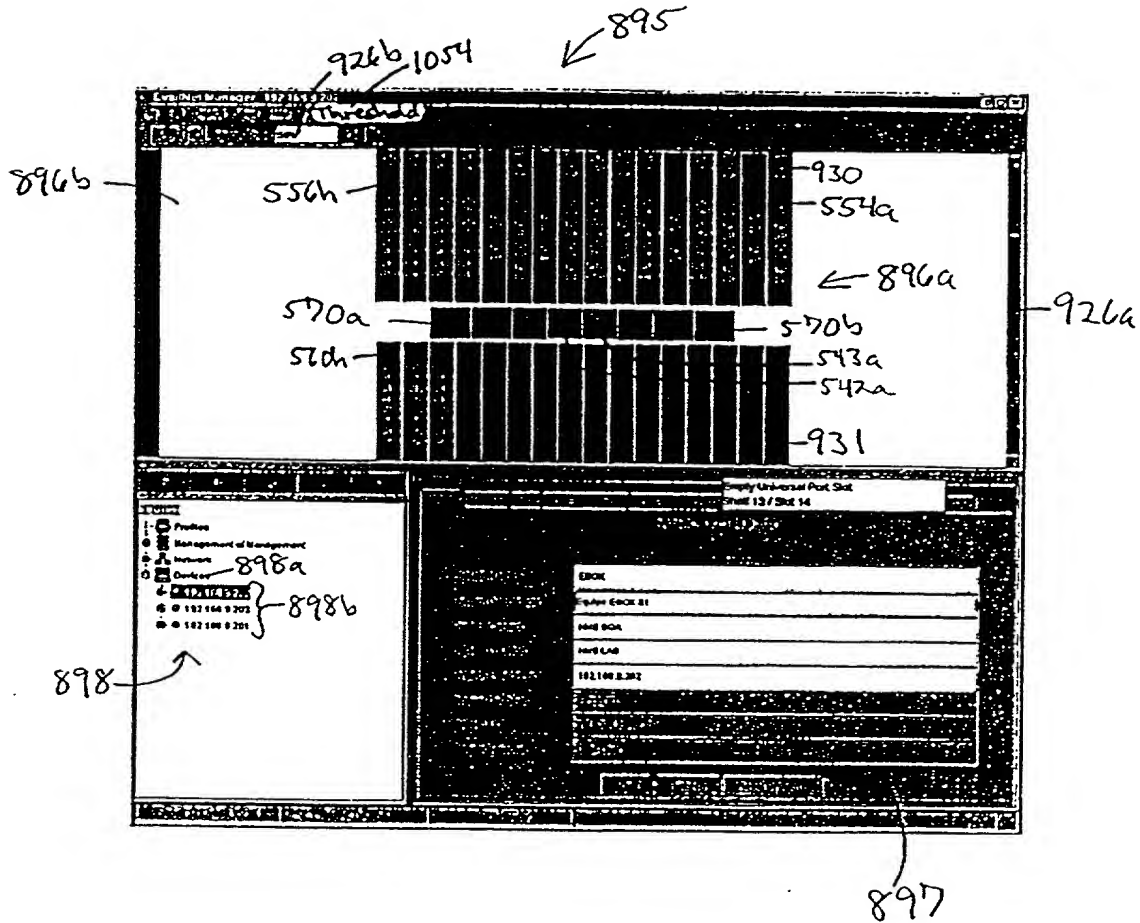


Fig. 66c

Fig. 67

1056
↙

Threshold Dialog Box

1056a	Resource:	1056i	1056f
1056b	Attribute:		
1056c	Threshold Rule:	1056k	1056g
1056d	Sampling Frequency:		
1056d	Action:	1056L	1055h
	1056o <input type="checkbox"/> Log	1056m	1056i
	1056n <input type="checkbox"/> NMS		
	1056p <input type="button" value="OK"/>	<input type="button" value="Cancel"/>	

Fig. 68

Dynamic Threshold Table

1048

	1048a Resource ID	1048c Attribute	1048d Sampling Freq.	1048e Action	1048f Rule
1048g	901	Unavailable Seconds (Path end)	15 min	Log	if attribute > 10
	901	Path Errors (path end)	15 min	trap	if attribute <5 or >10
	901	Path Errors (path end)	5 min	Log & trap	if attribute <5 or >10
	⋮	⋮	⋮	⋮	⋮
	5054	failed call attempts	10 min	trap	if attribute >8 between 8:00am-7:00pm or >2 between 7:00pm-8:00am
1048h	5054	hcs errors	12 min	trap	if attribute >13
	⋮	⋮	⋮	⋮	⋮
	7312	Rx Traffic	1 hour	trap	if attribute <4
	7312	Tx Traffic	1 hour	trap	if attribute =Ø
	⋮	⋮	⋮	⋮	⋮

1048'

Dynamic Threshold Table

1048a' Thr. Group LID	1048b' Resource	1048c' Attribute	1048d' Sampling Freq.	1048e' Action	1048f' Rule
8312	SONET Path	Unavailable Seconds (Path end)	15 min	Log	if attribute > 10
8312	SONET Path	Path Errors (Path end)	15 min	trap	if attribute <5 or >10
8312	SONET Path	Path Errors (far end)	5 min	Log & trap	if attribute <5 or >10
•	•	•	•	•	•
•	•	•	•	•	•
8433	ATM If	failed call attempts	10 min	trap	if attribute >8 between 8:00am-7:00pm or >2 between 7:00pm-8:00am
8433	ATM If	hcs errors	12 min	trap	if attribute > 13
•	•	•	•	•	•
•	•	•	•	•	•
8542	Virtual Conn.	Rx Traffic	1 hour	trap	if attribute <4
8542	Virtual Conn.	Tx Traffic	1 hour	trap	if attribute =0
•	•	•	•	•	•
•	•	•	•	•	•

Fig. 69a

Fig. 69b

Threshold Group Table

1052a

1052

1052b

Resource ID	Threshold Group LID
901	8312
902	8313
903	8312
⋮	⋮
5054	8433
⋮	⋮
7312	8542

Fig. 70a

1046^h

Dynamic Threshold Table

1048a ^h	1048b ^h	1048c ^h	1048d ^h	1048e ^h	1048f ^h	1048g ^h	1048h ^h	1048i ^h	1048j ^h	1048k ^h	1048l ^h	1048m ^h
Th. Group LID	Resource	Attribute	Sampling Freq.	Action	Rule LID	Variable a	Variable b	Variable c	Variable d	Variable e	Variable f	Variable n
8312	SONET Path	Unavailable	15 min	Log	9421	10						
8312	SONET Path	Seconds (Path end)	15 min	Log	9421	10						
8312	SONET Path	Path Errors	15 min	Trap	9422	5	10					
8312	SONET Path	Path Errors	5 min	Log & trap	9422	5	10					
8312	SONET Path	Path Errors (far end)	5 min	Log & trap	9422	5	10					
8403	ATM H	Failed call attempts	10 min	Trap	9423	8	8 00am	7 00pm	2	7 00pm	8 00am	
8403	ATM H	hcs errors	12 min	Trap	9421	10						
8542	Virtual Conn	Rx Traffic	1 hour	Trap	9424	4						
8542	Virtual Conn	Tx Traffic	1 hour	Trap	9425							

Fig. 70b

1050

Threshold Rule Table

1050a	Rule LID	Expression	1050b
1050c	9421	if attribute >a	
	9422	if attribute <a or >b	
	9423	if attribute > a between b-c or >d between e-f	
	9424	if attribute <a	
	9425	if attribute =Ø	
	9426	RMON	
	9427	FOE	
	9428	if attribute <a go to rule LID b	
	⋮	⋮	

Dynamic Threshold Table

1048a ¹	1048b ²	1048c ³	1048d ⁴	1048e ⁵	1048f ⁶	1048g ⁷	1048h ⁸	1048i ⁹	1048j ¹⁰	1048k ¹¹	1048l ¹²	1048m ¹³
Thr. Group	Resource	Attribute	Sampling Freq	Action	Rule Lid	Variable a	Variable b	Variable c	Variable d	Variable e	Variable f	Variable g
	LID	Unavailable										
	SONET Path	Seconds (Path end)	15 min	Log	9421	10						
	SONET Path	Path Errors (Path end)	15 min	trap	9422	5	10					
	SONET Path	Path Errors (far end)	5 min	Log & trap	9422	5	10					
	ATM	Tailed call										
	ATM	attempts	10 min	trap	9423	8	8.00am	7.00pm	2	7.00pm	8.00am	
	ATM	hcs errors	12 min	trap	9421	13						
	Virtual	Rx										
	Conn.	Traffic	1 hour	trap	9424	4						
	Virtual	Traffic	1 hour	trap	9425							
	Conn.	Unused										
	Drive	disk space	5 min	Log	9428	80	9424					Active
	Drive	Unused	30 sec	trap	9424	20						Inactive

Fig. 72a

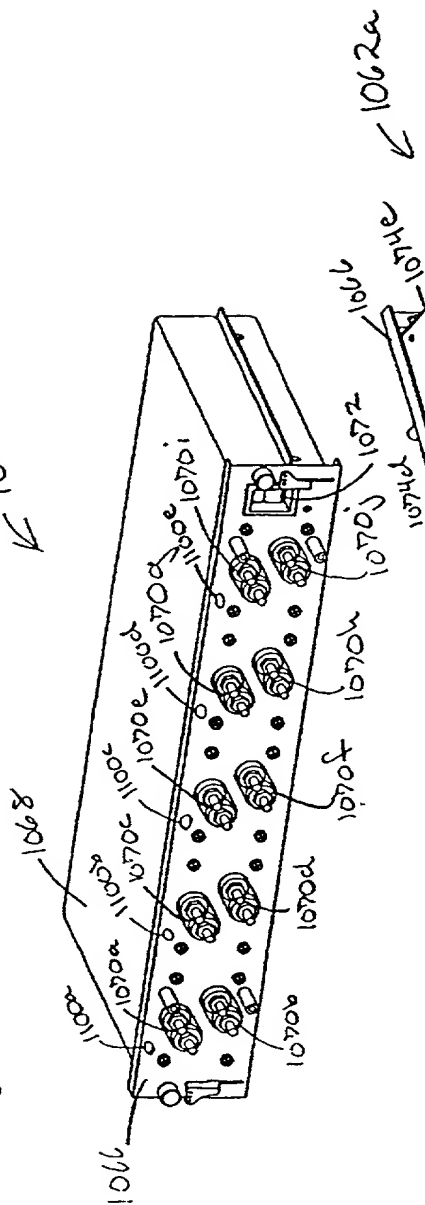


Fig. 72b

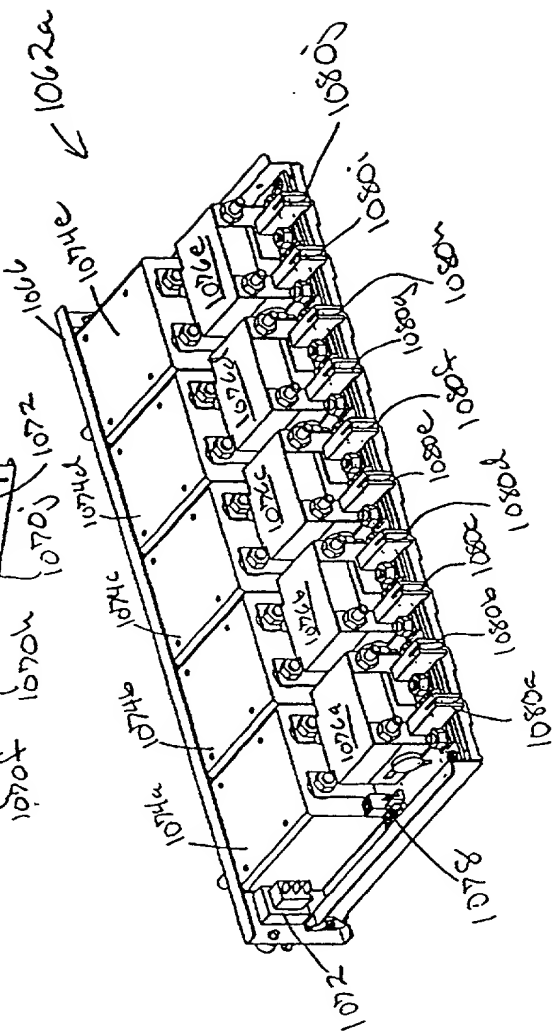


Fig. 73a

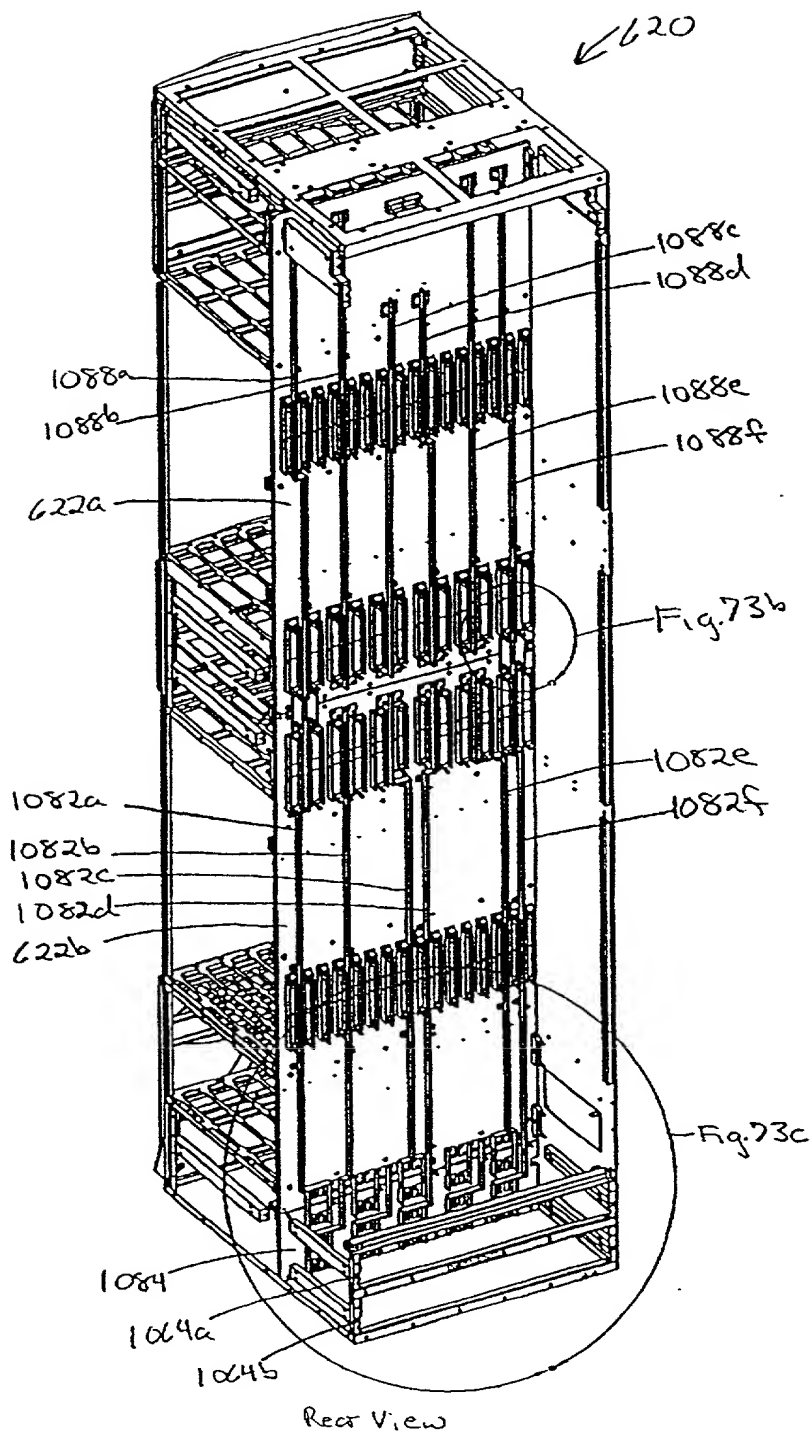


Fig. 73b

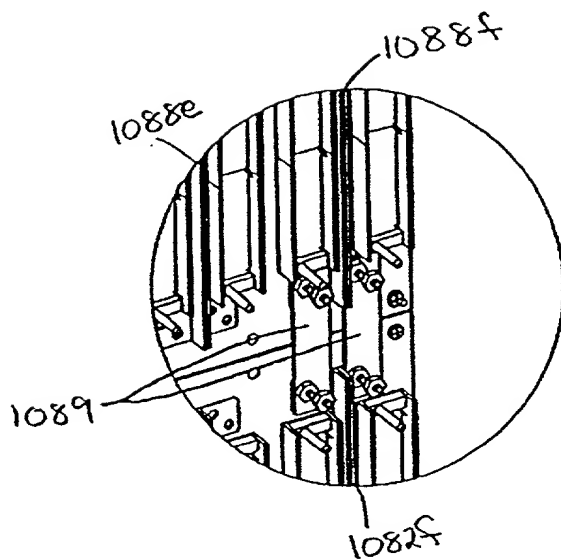
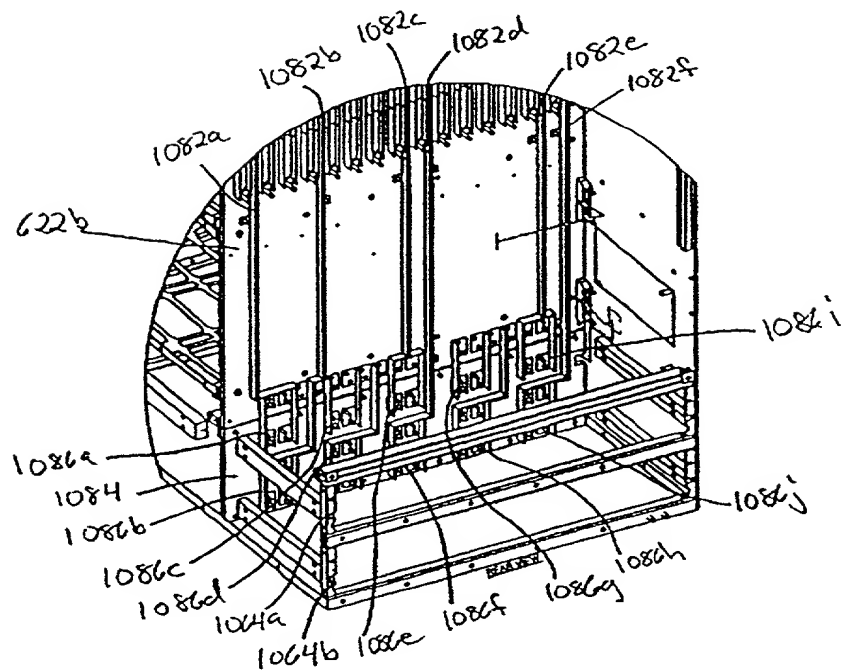


Fig. 73c



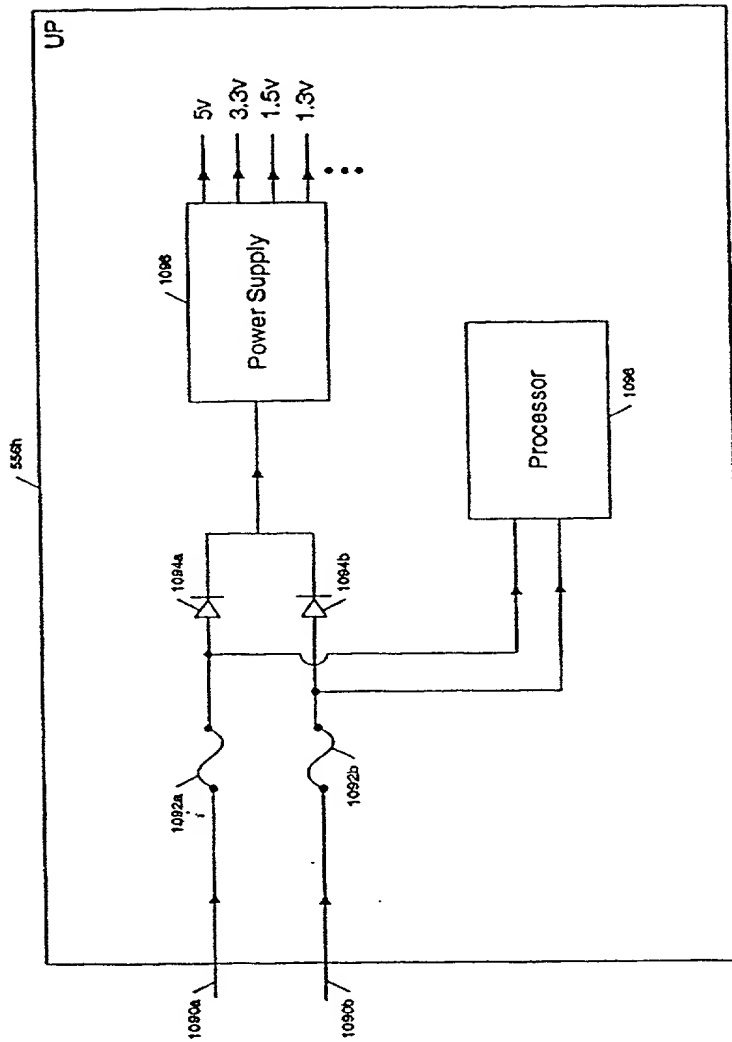
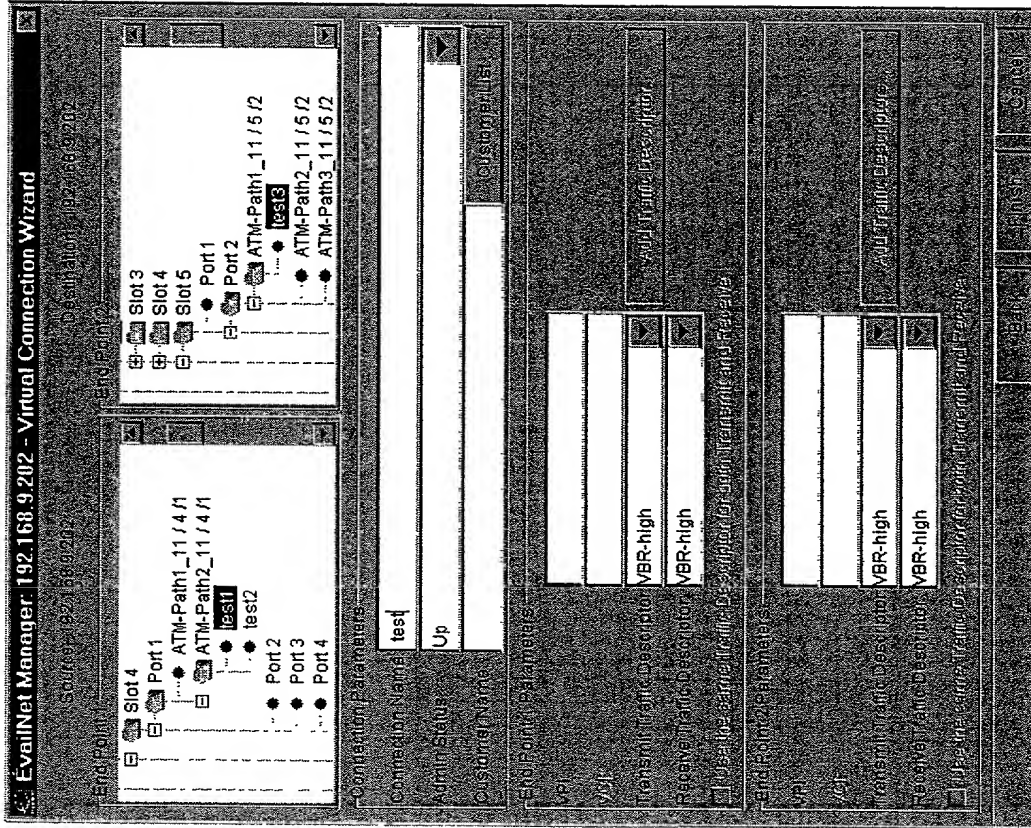


Fig. 74

Fig. 75



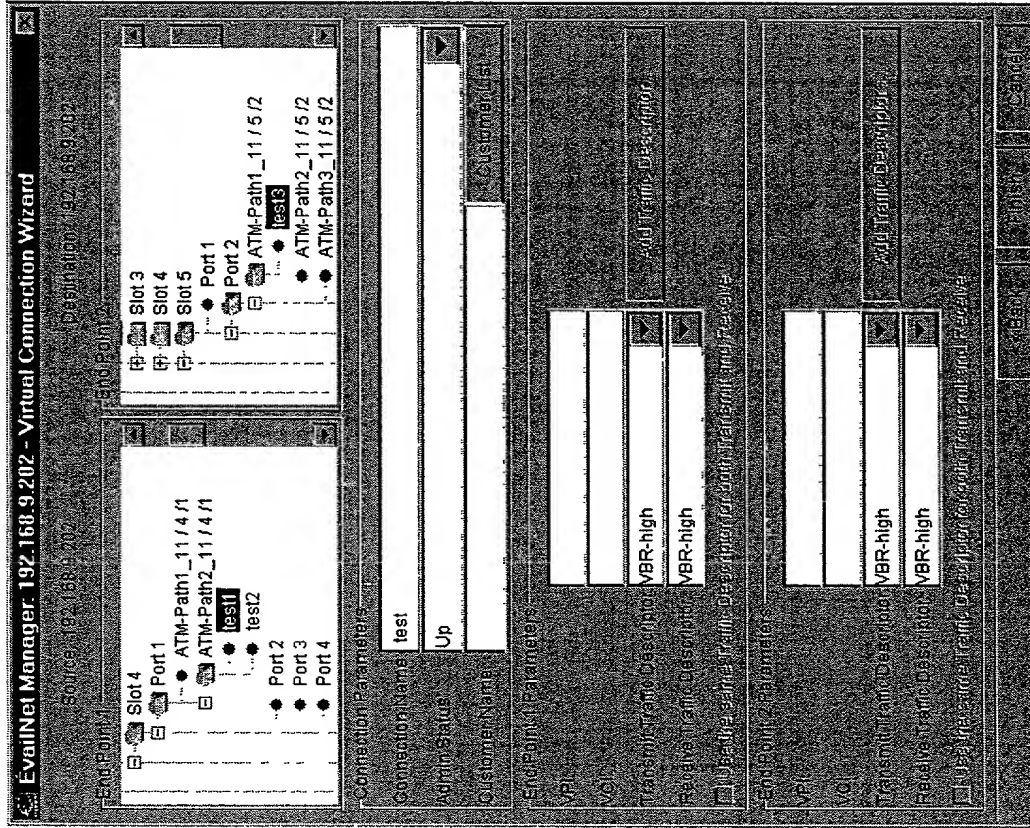
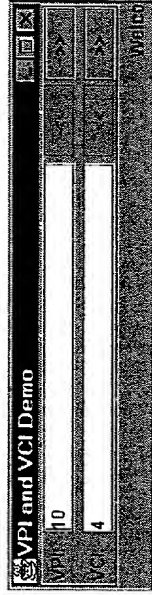


Fig. 76

Fig. 77



Fig. 78



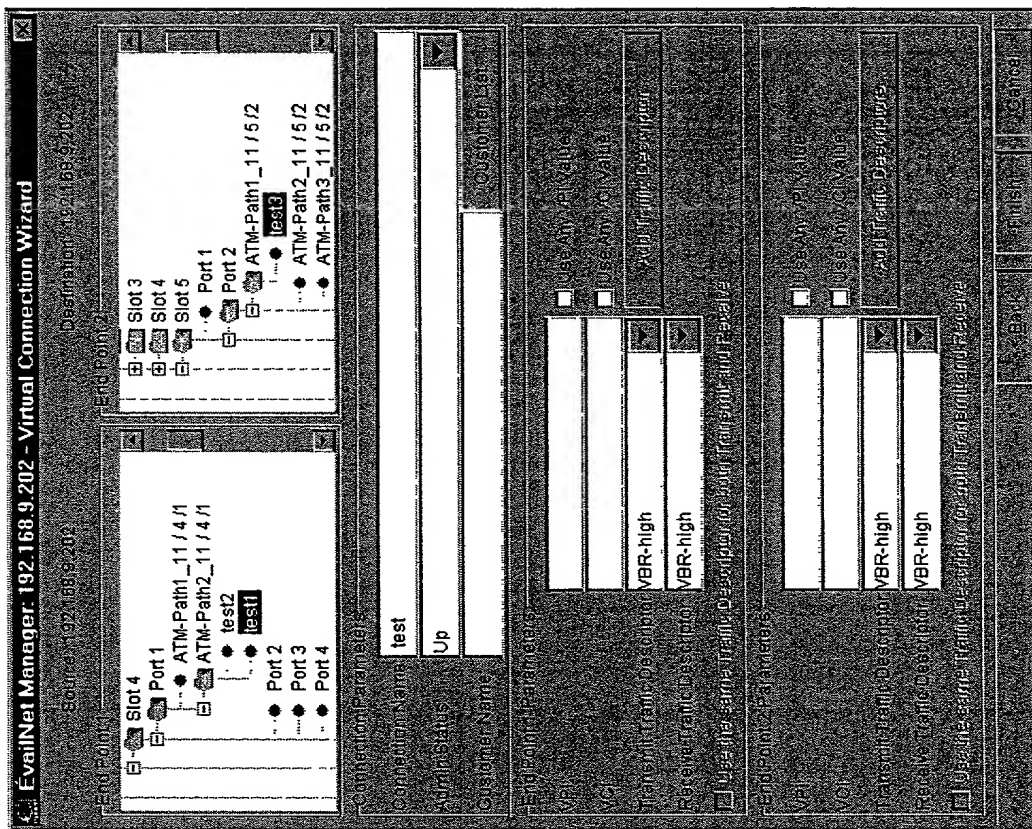
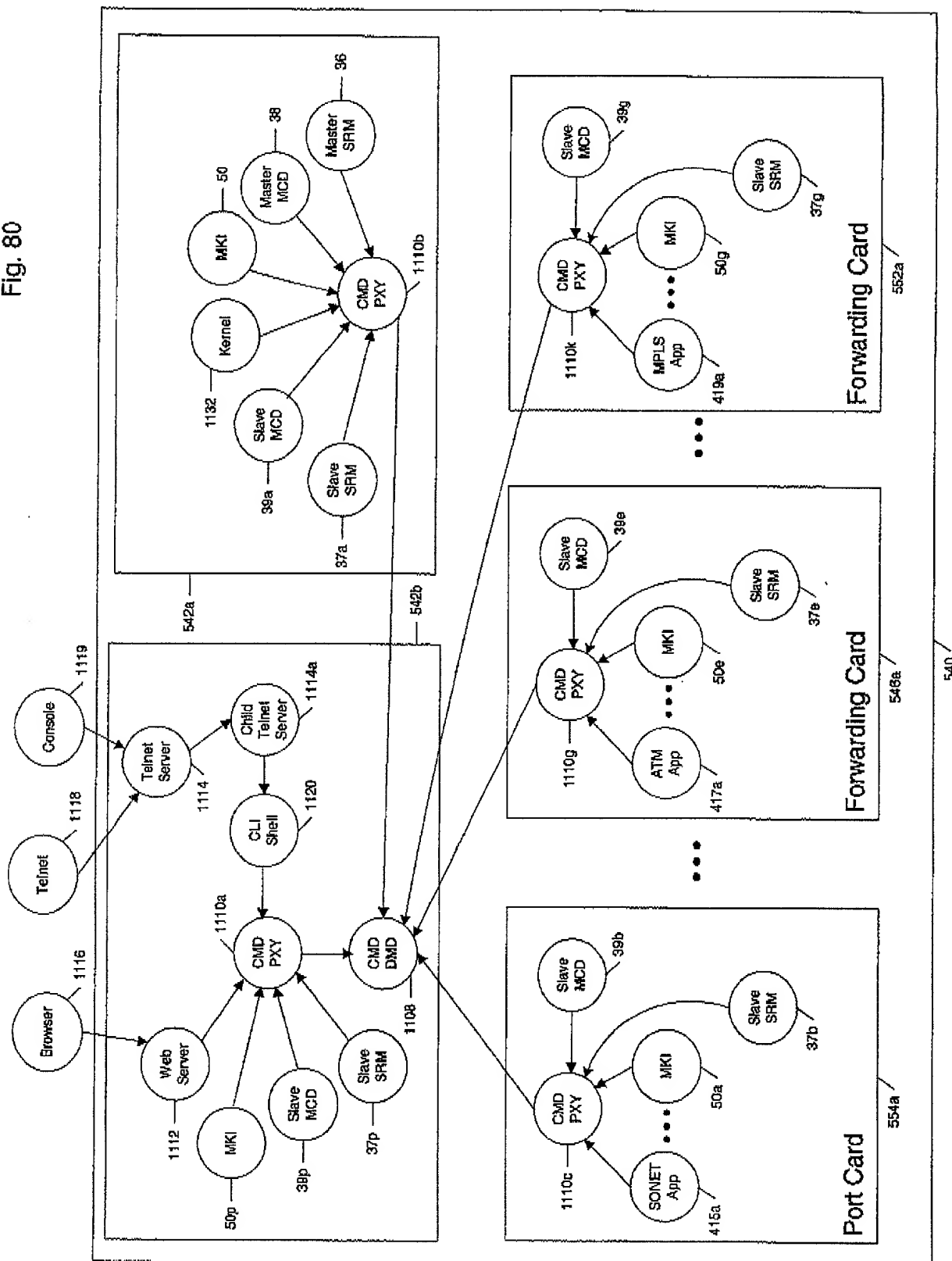


Fig. 79

Fig. 80



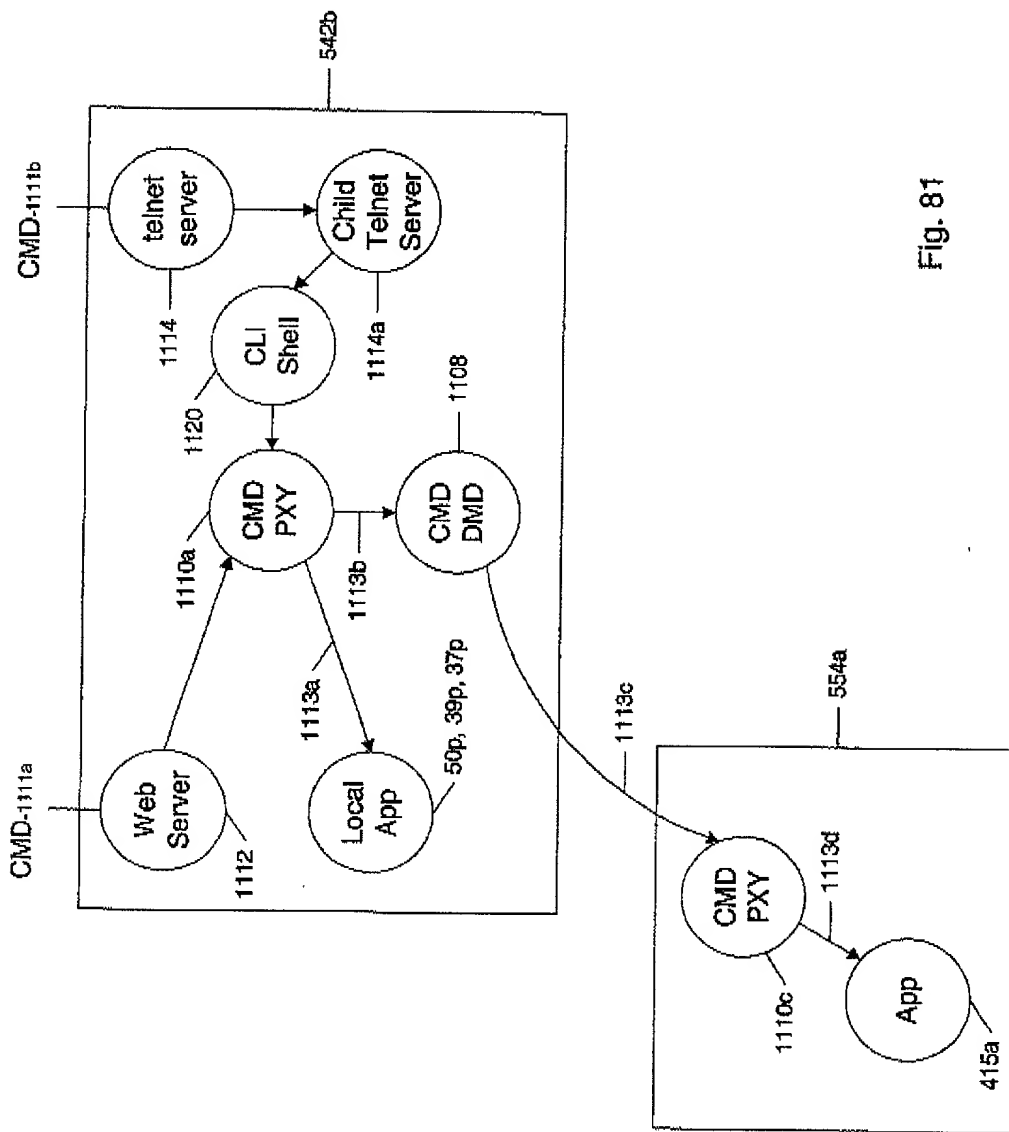
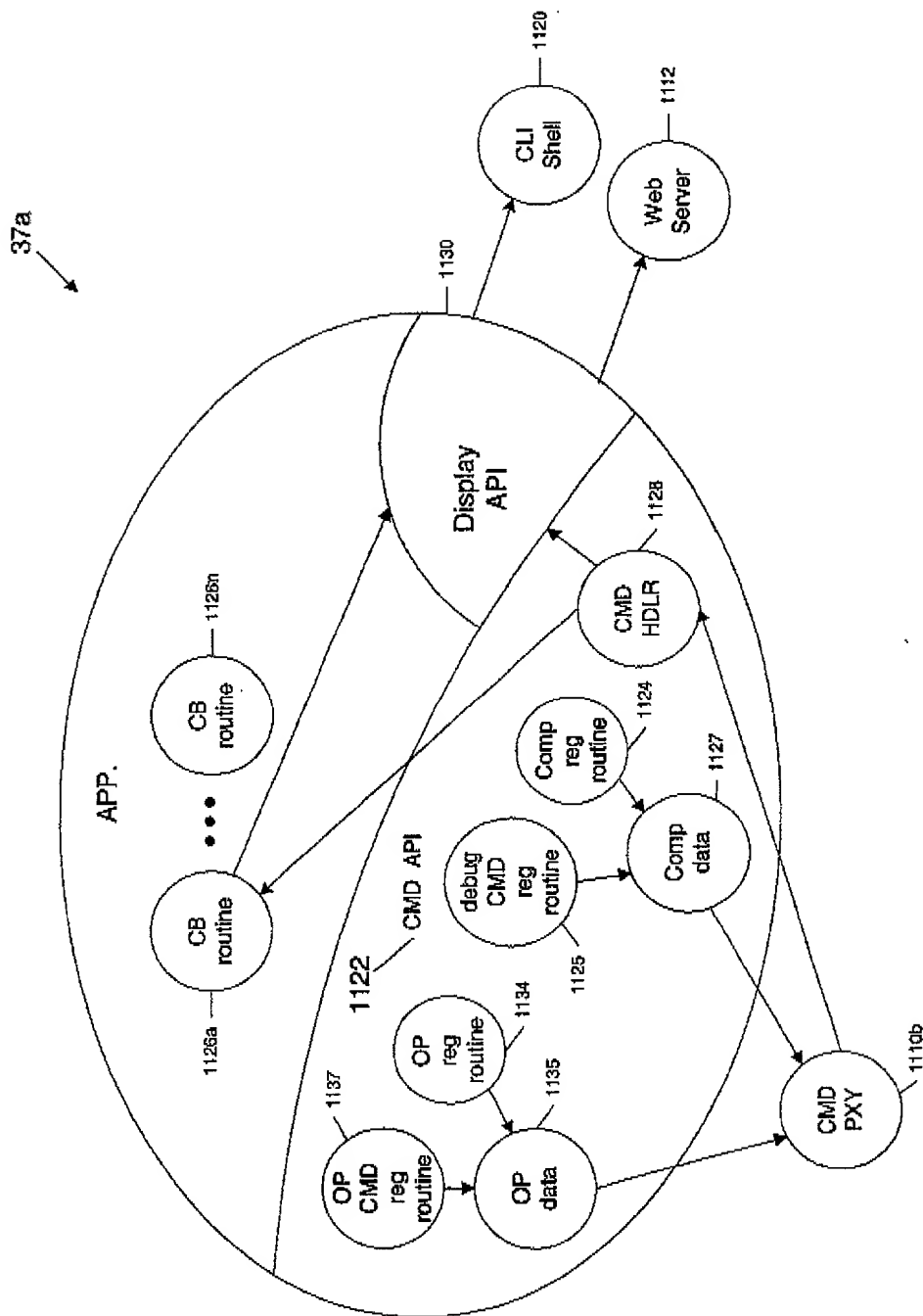


Fig. 81

Fig. 82



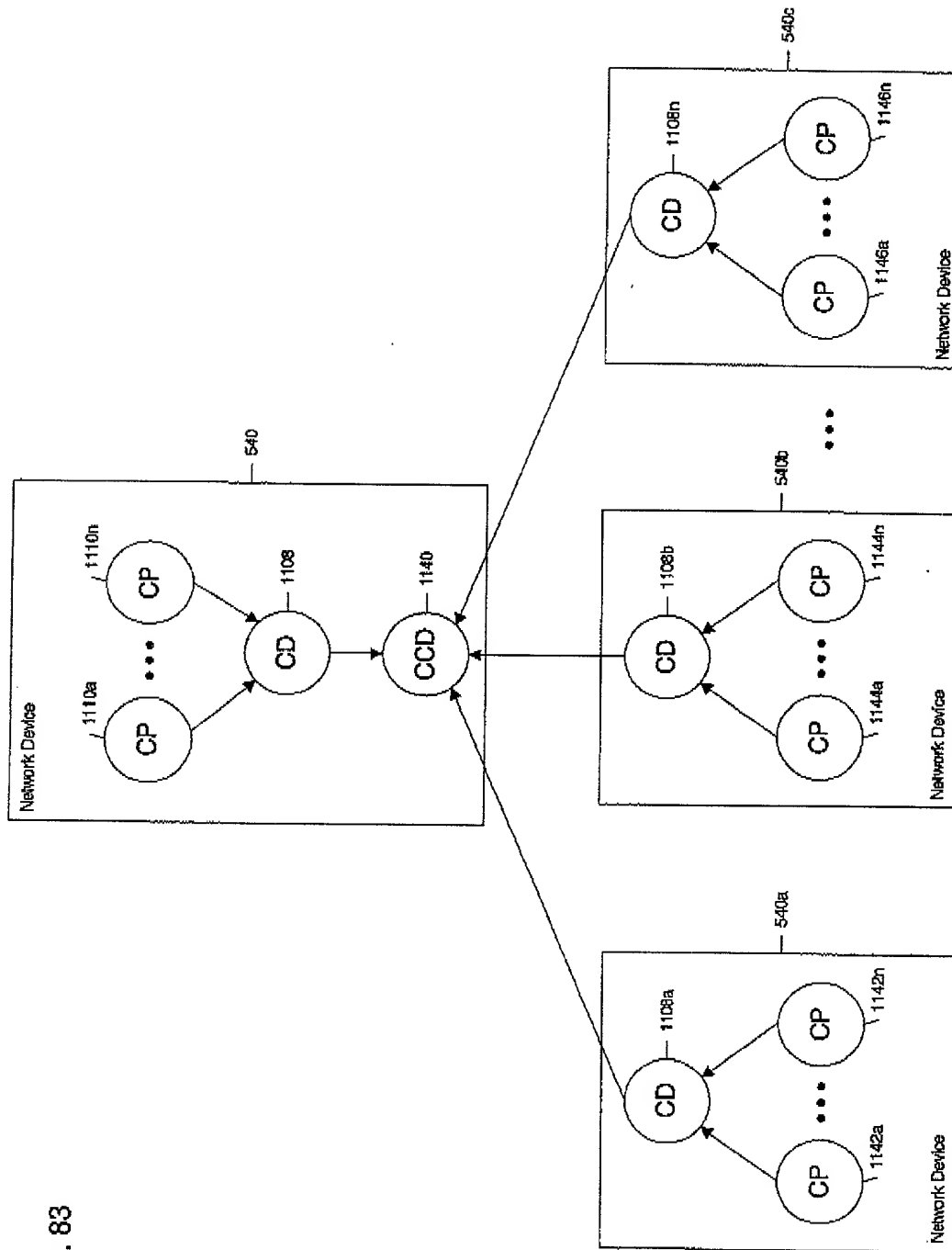


Fig. 83